

The `achicago` BibTeX style

A Chicago Manual BibTeX style

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To do: explain conventions; put some in `compsci`

Abstract

Chicago Manual of Style bibliography style `BIBTEX` macros.

Contents

I	Discussion	3
1	Pros and cons of this style	3
2	User documentation	3
II	Implementation	6
3	Version control	6
4	Implementation	6
4.1	Define fields and variables	6
4.1.1	Global variables	6
4.1.2	Bibfields	7
4.2	Define macros	8
4.3	Debugging functions	8
4.4	Initialization functions	9
4.5	Boolean logic	9
4.6	Constant functions	9
4.7	Output functions	10
4.8	Simple auxiliary functions	13
4.9	Queue functions START FIXING DOX HERE	16
4.10	Format functions dox	17
4.11	Format names functions	18
4.12	Make functions	20
4.13	Label and principal field functions	31
4.14	Begin and end entries	39

4.15	Entry types	39
4.15.1	Article	39
4.15.2	Book	41
4.15.3	Inbook	43
4.15.4	Incollection	45
4.15.5	Majorthesis	46
4.15.6	Manual	47
4.15.7	Booklet	48
4.15.8	Inproceedings	48
4.15.9	Proceedings	49
4.15.10	Misc	50
4.15.11	Techreport	50
4.15.12	Unpublished	50
4.15.13	Default	51
4.16	Sorting	51
5	Disambiguating citations and sorting the bibliography	53
5.1	Actions	55

Part I

Discussion

Warning: *The dox are spotty for this bibstyle—sorry! This is a pretty stable style, however. I’ve included almost my entire test cases. If you’re puzzled, you may compare `frankenstein.bib` with what you see in the References section at the end of this document. Or please write me.*

Reference list ordering: alphabetical by author or whatever passes for author in the absence of one.

1 Pros and cons of this style

See a discussion in the documentation for the *achicago* package.

2 User documentation

No bibstyle is going to elegantly handle everything while using them in a way that’s at all compatible with the majority of existing bibstyles out there. And it’s not clear that such a bibstyle would be worth the effort to write and learn to use properly. The time would be better spent, I think, writing some macros to make inserting hand-done exceptions seamlessly into the bibliography, so that the whole process could remain clean and automatic.

For the sceptical, and for your entertainment, an example. I wanted to cite a certain paper by Freud in my dissertation. The cited paper has a title, date of first publication, and chapter number; I read this paper in a volume of Freud’s papers with a title, volume editor, volume date, publisher, reprint date, and reprint publisher; this volume has a number in a series of publications (The International Psycho-Analytic Library) with a series editor; and also this volume has a volume number within a multivolume work with its own title (*Collected Papers*) and (supervising) translator. Readers honestly don’t need all that information, but each one of those 15 pieces of information might be highly important for another citation, for which only two or three pieces of information were relevant or available. No one needs to write a bibstyle that handles it all, so at several places, the fields are assumed to be used for either one thing or another. For example, ‘series’ *either* contains the title of the inclusive multivolume work *or* the series. When, as rarely happens, a volume is part of both at once, you have to give up one or the other.

Warning: *This is a complex bibstyle and the number of potential cases is very high. Please check your output, and write me with cases that are not set according to Chicago Manual precepts. Please refer to Chicago Manual whenever possible.*

To do: *star the new fields.*

entry type	description
address	Address of publisher of <i>cited</i> edition, whether a reprint or not.
annotation	A complete paragraph or more.

Table 1: Entry types.

entry type	description
author	
bookauthor	Book's author whenever ' author is referring to the author of a part of the book. Usually an 'inbook' or "incollection" entry refers to a book with an editor but no author, but in the case of introductions etc. you have an author for each.
booktitle	Book's title whenever ' title is referring to a part of the book.
chapter	The ' title names the ' chapterth part of the book. One expects to have nonempty ' booktitle. See also ' type.
edition	Edition information to be given after the book's title, which is ' booktitle if that is nonempty and ' title otherwise. Example: 2d~ed.,2~vols.in1~book
editor	NOTE all f* and o* fields are only going to apply to 'book', "incollection", 'inbook' entries. FIX: check – booklet? etc.
faddress	Address of publisher of first-published edition. Not used unless ' fyear is nonempty.
flanguage	Language of first-published edition. Not used unless ' translator or ' fyear is nonempty.
fpublisher	Publisher of first-published edition. Not used unless ' fyear is nonempty.
ftitle	Title of first-published edition (probably in ' flanguage). Not used unless ' fyear is nonempty.
fyear	Publication date of first-published edition.
howpublished	
illustrator	For 'book' entries only. When the author or editor illustrates, use a construction like {theeditor}andothers.
institution	For thesis entries only. FIX check
journal	For 'article' entries only.
key	often default with empty author, editor, organization
month	For 'journal' entries, also season, e.g., Winter
note	Begins its own block, so capitalize. Concluding punctuation is supplied automatically if not given in the field.
number	For 'journal' entry, number of the journal (if no " volume) or number within the volume. For "book" entry, number of the book in the ' series. Makes sense only when ' series is a series rather than the title of a multivolume work.
oaddress	For a reprint, address of ORIGINAL publisher.
opublisher	For a reprint, publisher of ORIGINAL edition. A nonempty value implies the cited edition IS a reprint (and so must have ' oyear).
organization	
oyear	For a reprint, publication date of ORIGINAL edition A nonempty value implies the cited edition IS a reprint (and so OUGHT TO have ' opublisher). The value will almost always differ from ' year.
pages	
publisher	Publisher of the cited edition.

Table 1: Entry types.

entry type	description
school	
series	Series to which ‘‘ title belongs, or title of a multivolume work where the volumes have their own titles given in ‘‘ booktitle or ‘‘ title.
seriesedition	Edition information to be given after ‘‘ series. Makes sense only when ‘‘ series is the title of a multivolume work with titled volumes. In the entry for the multivolume work, that is, when ‘‘ series and ‘‘ title are identical, use ‘‘ seriesedition not ‘‘ edition. See also ‘‘ edition. Consequence of disobeying last is when references are less than min-crossrefs (i.e., no separate entry for the multivolume work) you get the edition information for the multivolume work appearing after the title of the component volume. Note: you can’t really get away with putting a series editor here. I think you’d have to use the ‘‘ note field for that; or we could make yet another field.
title	
translator	For ‘book’ entries only, the translator(s). See also ‘‘‘‘ flange. When the author or editor translates, use a construction like {theeditor}andothers.
type	For ‘inbook’ entries, the value overrides Chapter. When ‘‘‘‘ type is empty you get Chapter~<chapter>of. FIX: CHECK: For *-thesis entries, gives thesis-type word, e.g. Master’sThesis.
volume	For ‘journal’ entry, it’s volume. For ‘book’ entry, its number in the ‘‘ series, or its volume number in a multivolume book.
year	Year of publication of cited edition, whether a reprint or not.
yearcomp	Year work composed. For ‘book’ entry only (so far).

Table 1: Entry types.

Part II

Implementation

3 Version control

Version information:

```
1 ^^A Keep the /~ %% \def\file.../ beginning exact!
2
3 %% A BibTeX bibliography style
4 %%   conforming to the Chicago Manual's A style
5 %%   but with B style author-date citations
6 %%   by Matt Swift <swift@alum.mit.edu>
7 %%
8 %% \def\fileinfo{A Chicago Manual BibTeX style}
9 %% \def\DoXPackageS {longtable}
10 %% \def\initelyHavECitationS {}
11 %% \def\fileversion{v1}
12 %% \def\filedate{2001/08/31}
13 %% \def\docdate{2001/08/31}
14 %%
15
```

4 Implementation

4.1 Define fields and variables

4.1.1 Global variables

`output.state` will have one of the four scalar values `before.all`, `mid.sentence`, `after.sentence`, and `after.block`, telling us where we are in producing the entry.

`Achicago` uses only *blocks*, not *sentences*, to delimit units in the bibentry (some other bibstyles use both). The `achicago` package defines `\newblock` to add a very small and rubber amount of horizontal space, relaxing somewhat the `\frenchspacing` in effect. I have not removed the programming structures that distinguish sentences and blocks, but I have not concerned myself with them either; anyone wishing to revise this style to begin using them should check their work carefully.

```
16 INTEGERS { output.state before.all mid.sentence after.sentence after.block }
```

The entry variable `principal-type` will have one of the five scalar values `author.ptype`, `editor.ptype`, `organization.ptype`, `key.ptype`, and `emergency.ptype`, telling us what type of information is in the principal field. See also the discussion of `key.special.p`.

```
17 INTEGERS { author.ptype editor.ptype organization.ptype key.ptype
18           emergency.ptype }
```

These are used during the forward and reverse passes to hold information about the previously-processed record.

```
19 INTEGERS { last.year.tag.num }
20 STRINGS  { last.leaditem last.label.and.year following.year.label.tag }
```

These variables are used locally within various functions or function groups, where their particular use is documented.

To do: document which if any are used in a nonlocal way

Warning: Suspect a conflict among these scratch variables if a strange problem occurs! I think `u` is the only one that will hold its value past an output.

```
21 INTEGERS { j nameptr namesleft numnames len }
22 STRINGS  { s t u v w }
```

4.1.2 Bibfields

The list of fields that will be examined in database records, if they exist. Fields in the `bib` database not on this list will be ignored. Not every entry type makes use of every field. Each entry type function below lists its required, optional, and ignored fields. Expected use of these fields is documented above in the user documentation.

```
23 ENTRY
24 { address
25     annotation
26     author
27     bookauthor
28     booktitle
29     chapter
30     edition
31     editor
32     faddress
33     flanguage
34     fpublisher
35     ftitle
36     fyear
37     howpublished
38     illustrator
39     institution
40     journal
41     key
42     month
43     note
44     number
45     oaddress
46     opublisher
47     organization
48     oyear
49     pages
50     publisher
51     school
52     series
53     seriesedition
54     title
55     translator
56     type
57     volume
58     year
59     yearcomp
60 }
```

Entry variables have a per-record value but are not initialized from a field.

The integer `principal-type` will contain one of the scalars `author.ptype`, `editor.ptype`, etc. (see their declarations above for further information). `principal-type` is set in the function `set.principal-field.principal-type`.

```
61 { principal-type }
```

The strings `label`, `year.label` and `year.label.tag` are used to construct the citation (the running text at the location of the user's `\cite` command). In most cases, `label` will contain a string derived from the `principal-field` (see `make.label`).

```
62 { label
```

`year.label` will contain a string representing the date. It's not necessarily the same as "year" (see `make.year.label`). `year.label.tag` will either be empty or be a lower-case letter, as determined in the forward and reverse passes.

```
63   year.label year.label.tag
```

`principal-field` will contain one of the fields, depending on entry type and what fields are nonempty (see `set.principal-field.principal-type`).

In most cases, `leaditem` will contain the `principal-field` properly formatted for appearance at the beginning of the bibliography entry (see `make.leaditem`). When it is identical to the previous entry's `leaditem`, it will be wrapped in `\SCduplicate` by the forward and reverse passes.

```
64   principal-field
```

```
65   leaditem
```

```
66 }
```

4.2 Define macros

These are macro abbreviations required by convention in every bibstyle. The user can redefine them with `@STRING` declarations in the `bib` database.

```
67 MACRO {jan} {"January"}
```

```
68 MACRO {feb} {"February"}
```

```
69 MACRO {mar} {"March"}
```

```
70 MACRO {apr} {"April"}
```

```
71 MACRO {may} {"May"}
```

```
72 MACRO {jun} {"June"}
```

```
73 MACRO {jul} {"July"}
```

```
74 MACRO {aug} {"August"}
```

```
75 MACRO {sep} {"September"}
```

```
76 MACRO {oct} {"October"}
```

```
77 MACRO {nov} {"November"}
```

```
78 MACRO {dec} {"December"}
```

4.3 Debugging functions

```
debugval
```

```
debugmsg
```

```
79 FUNCTION {debugval}
```

```
80 {   ": [" *
```

```
81   swap$ *   %$
```

```
82   "]" in " * cite$ *   %$
```

```
83   top$   %$
```

```
84 }
```



```

85
86 FUNCTION {debugmsg}
87 { " in " * cite$ * top$
88 }

```

4.4 Initialization functions

`init.scalars` This should be called before any processing begins.

```

89 FUNCTION {init.scalars}
90 { #0 'before.all :=
91   #1 'mid.sentence :=
92   #2 'after.sentence :=
93   #3 'after.block :=
94
95   #0 'author.ptype :=
96   #1 'editor.ptype :=
97   #2 'organization.ptype :=
98   #3 'key.ptype :=
99   #4 'emergency.ptype :=
100 }

```

4.5 Boolean logic

```

not
and 101 FUNCTION {not}
or 102 { { #0
103   }
104   { #1
105   }
106   if$ %$
107 }
108
109 FUNCTION {and}
110 { 'skip$ %$
111   { pop$ %$
112     #0
113   }
114   if$ %$
115 }
116
117 FUNCTION {or}
118 { { pop$ %$
119   #1
120   }
121   'skip$ %$
122   if$ %$
123 }

```

4.6 Constant functions

`comma` These definitions are made so that later functions are easier to read and so that
`period` adapting this bibstyle to another language will be simpler.

`hyphen`

`colon`

`space`

`delimiter.name-part`

`delimiter.name`

`delimiter.sub-sortkey`

`tie`

`etal`

`unidentified`

The reason these are functions not macros is so the user cannot change them.

```
124 FUNCTION {comma}
125 { ","
126 }
127
128 FUNCTION {period}
129 { "."
130 }
131
132 FUNCTION {hyphen}
133 { "-"
134 }
135
136 FUNCTION {colon}
137 { ":"
138 }
139
140 FUNCTION {space}
141 { " "
142 }
143
144 FUNCTION {delimiter.name-part}
145 { " "
146 }
147
148 FUNCTION {delimiter.name}
149 { " "
150 }
151
152 FUNCTION {delimiter.sub-sortkey}
153 { " "
154 }
155
156 FUNCTION {tie}
157 { "~"
158 }
159
160 FUNCTION {etal}
161 { " et~al."
162 }
```

Below, we need to be able to set a string to a value which would never be generated from any string in a bibliography database. It's safe to assume that this string is such a one.

```
163 FUNCTION {unidentified}
164 { "HiGHLY*Peco@lIEr"
165 }
```

4.7 Output functions

The `output` function automatically handles interunit punctuation.

`output` should be called with a string and a punctuation mark on the stack. The punctuation mark is what should *precede* the string in the case the string begins in the middle of a sentence. Strings which begin sentences are preceded

by periods. Strings which begin a new block are preceded by periods and the `\newblock` command. (It makes no sense for a string to begin at the end of a sentence.)

Calls to `output.internal` leave the string on the stack until the next time `output.internal` is called, when it will get written. The function `output.begin` puts an empty string on the stack, and should be called before beginning any series of calls to `output`. `output.end` cleans up and should be called at the conclusion of a series of calls to `output`.

`output.begin` Prepare for a series of calls to `output`. Put an empty string on the stack and set `output.state` to `before.all`.

```
166 FUNCTION{output.begin}
167 { ""
168   before.all 'output.state :=
169 }
```

`output.end` Conclude a series of calls to `output`. Simply calls `write$`.

```
170 FUNCTION {output.end}
171 { write$          %$
172 }
```

`new.block` Begin a new block.

```
173 FUNCTION {new.block}
174 { output.state before.all =
175   'skip$          %$
176   { after.block 'output.state :=
177     }
178   if$            %$
179 }
```

`new.sentence` Begin a new sentence. FIX: hmm, wouldn't we want to put a TeX command here for intersentence space now? Why do we mess with the usual spacefactor for periods anyway? When in bibliographies are the usual TeX rules not going to be what we want, and give too much space after a period? answer: when a lowercase letter followed by period, in e.g. sec. 2 and so on. often bibstyle will put tie there, but sometimes not I think, so need to have that be not an intersentence space. well, if i start using sentences instead of blocks, I think perhaps doing the same hskip after a sentence with a new command `\newsentence` perhaps as in `\newblock` would be the right thing to do.

```
180 FUNCTION {new.sentence}
181 { output.state before.all = output.state after.block = or
182   'skip$          %$
183   { after.sentence 'output.state :=
184     }
185   if$            %$
186 }
```

`output.internal` `\stackpunct string/entry(nonnull)null`

```
187 FUNCTION {output.internal}
188 { 's :=          % s := string/entry(nonnull)
189   space * 't :=  % t := punctuation + space
190   output.state mid.sentence =
```

```

191 { t * write$          %$
192 }
193 { output.state after.block =
194   { add.period$ write$
195     newline$          %$
196     "\newblock " write$      %$
197   }
198   { output.state before.all =
199     'write$           %$

```

Final case is `output.state = 'after.sentence'`, which means we just add a period, but no newline or `\newblock` command.

```

200   { add.period$ space * write$
201   }
202   if$           %$
203 }
204 if$           %$

```

We are now mid-sentence, whether we were before or not.

```

205   mid.sentence 'output.state :=
206 }
207 if$           %$

```

The actual string given to `'output.internal'` is left on the stack here for next time we call `'output.internal'` or `'output.end'`, whichever comes next.

```

208 s
209 }

```

`output` `\stackstring/entry puncteither null OR punct string/entry(nonnull)`

Check if `string/entry` is null. If it's null do nothing. If it's nonempty call `output.internal` on it with the given punctuation.

```

210 FUNCTION {output}
211 { swap$ duplicate$ empty$
212   { pop$
213     pop$          %$
214   }
215   'output.internal
216   if$           %$
217 }

```

`output.bibitem` The optional argument to `\bibitem` will be made the definition of `\b@foo` where `foo` is the `cite$` key. `\b@foo` will be executed by all the various citing commands with a definition of `\SCcite` that is appropriate to each citing command.

The `thebibliography` environment actually ignores the optional argument to `\bibitem`. The environment sets the formatting so that the first part of the main entry hangs out to the left and looks like a label.

The unexpandable protection is necessary, instead of a simple protection, in order to work with `newclude`'s `tag` option.

I guess we use `write$` for each part instead of catenating them and using a single `write$` in case the catenation gets longer than `BIBTEX` can handle. I don't know, this is how I found it. It seems like catenation and a single call to `write$` would be faster. FIX.

```

218 FUNCTION {output.bibitem}
219 { newline$          %$

```

```

220 "\bibitem[\UnexpandableProtect\SCcite{" write$      %$
221 label write$          %$
222 "}{ " write$          %$
223 year.label year.label.tag * write$          %$
224 "]}{" write$          %$
225 cite$ write$
226 "}" write$          %$
227 newline$          %$
228 }

```

4.8 Simple auxiliary functions

`field.or.null` `\stackfield` literalfield contents or null string if the field was missing

```

229 FUNCTION {field.or.null}
230 { duplicate$ empty$
231   { pop$          %$
232     ""
233   }
234   'skip$          %$
235   if$             %$
236 }

```

`italicize` `\stackstring` or `entrystring`

Italicize the top string on the stack and provide italic corrections. Null goes to null. We want to explicitly italicize rather than use `\emph`, since semantic emphasis might be indicated in some other way in the document, e.g., slanted type.

```

237 FUNCTION {italicize}
238 { duplicate$ empty$
239   { pop$          %$
240     ""
241   }
242   { "\textitswitch{" swap$ * "}" *          %$
243   }
244   if$             %$
245 }

```

`parenthesize` `\stackstring-or-entry:S`"(" + S + ")"

```

246 FUNCTION {parenthesize}
247 { duplicate$ empty$
248   { pop$          %$
249     ""
250   }
251   { "(" swap$ * ")" *          %$
252   }
253   if$             %$
254 }

```

`format.clip` `\stackstringstring` FIX: the difference between `entry.max$` and `global.max$`: max for an entry string, max for a global string.

`format.clip` `\stackstring-Sstring-S-possibly-shortened`

Clips a string down to the smaller of `entry.max$` and `global.max$`.

```

255 FUNCTION {format.clip}
256 { #1 entry.max$ substring$
257   #1 global.max$ substring$
258 }

```

format.sortify.clip purify\$, downcase, and clip a string on the stack. \stack{string}<string>

```

259 FUNCTION {format.sortify.clip}
260 { % duplicate$ "sinful" debugval %$
261   purify$ %$
262 % duplicate$ " pure" debugval %$
263   "l" change.case$ %$
264   format.clip
265 % duplicate$ "humble" debugval %$
266 }

```

check.empty \stackS warningS Issues warning if the string is empty.

```

267 FUNCTION {check.empty}
268 { 't :=
269   duplicate$ empty$
270   { "empty " t * " in " * cite$ * warning$
271     }
272   'skip$ %$
273   if$ %$
274 }

```

multipage.p \stacknothing#0 or #1

Set t to " pages. Look at t character by character for a hyphen, comma, or plus. If we find one, return true immediately; else return false.

```

275 FUNCTION {multipage.p}
276 { pages 't :=
277   #0 'j :=
278   % WHILE
279   { j not
280     t empty$ not %$
281     and
282   }
283   { t #1 #1 substring$ %$
284     duplicate$ hyphen = %$
285     swap$ duplicate$ comma =
286     swap$ "+" = %$
287     or
288     or
289     { #1 'j :=
290       }
291     { t #2 global.max$ substring$ 't :=
292       }
293     if$
294   }
295   while$
296   j
297 }

```

format.n.dashify \stackstringstring

Make single-dashes into double-dashes.

```
298 FUNCTION {format.n.dashify}
299 { 't :=
300   ""
301   % WHILE
302   { t empty$ not }           %$
303   { t #1 #1 substring$ hyphen =           %$
304     { t #1 #2 substring$ "--" = not       %$
305       { "--" *
306         t #2 global.max$ substring$ 't :=
307       }
308     { % WHILE
309       { t #1 #1 substring$ hyphen = }     %$
310     { hyphen *
311       t #2 global.max$ substring$ 't :=
312     }
313     while$           %$
314   }
315   if$           %$
316   }
317   { t #1 #1 substring$ *           %$
318     t #2 global.max$ substring$ 't :=
319   }
320   if$           %$
321   }
322   while$           %$
323 }
```

`tie.or.space.connect` \stackstring stringstring

If the second string has less than 5 characters, the two are tied together, otherwise they are catenated with a space between them.

```
324 FUNCTION {tie.or.space.connect}
325 { duplicate$ text.length$ #5 <
326   { tie
327   }
328   { space
329   }
330   if$
331   swap$ * *
332 }
```

`either.or.check` \stackmsg fieldnull If field is not empty, give a warning appropriate for saying this field and an already-existing field can't be both used in the same entry.

```
333 FUNCTION {either.or.check}
334 { empty$
335   'pop$
336   { "can't use both " swap$ * " fields in " * cite$ * warning$
337   }
338   if$
339 }
```

4.9 Queue functions START FIXING DOX HERE

Queue functions expect a string on the stack. If it is empty, and the field for which the function is named is nonempty, the string will be replaced with that field. (e.g., `author.q` will put `'author` on the stack if `'author` is nonempty and the `author.q` was passed an empty string). A chain of queue functions must begin with something on the stack, and will leave the first nonempty field named in the chain on the stack.

Queue functions also increment an integer variable, `j`, whenever they are passed an empty string. At the end of the queue, `j` tells us which function in the queue contributed the string that results at the end of the queue, starting with zero for the first queue function after `start.a.q`. In order for this to work, queue functions must always be called in the same order: `'author` (`'#0`) `'editor` (`'#1`), `'organization` (`'#2`), and `'key` (`'#3`). For entry types where a certain field should not appear in the queue, use `'blank.q` in its place in the order.

The value of `j` is consulted when setting `leaditem`, but not in other cases where queue functions are used

`start.a.q` must begin a queue. It initializes `j` and passes an empty string to the first queue function.

```
start.a.q
    340 FUNCTION {start.a.q}
    341 { #-1 'j :=
    342   ""
    343 }

    inc.j
    key.q 344 FUNCTION {inc.j}
organization.q 345 { j #1 + 'j :=
editor.q 346 }
author.q 347
blank.q 348 FUNCTION {key.q}
    349 { duplicate$ empty$
    350   { pop$           %$
    351     key field.or.null
    352     inc.j
    353   }
    354   'skip$           %$
    355   if$             %$
    356 }
    357
    358 FUNCTION {organization.q}
    359 { duplicate$ empty$
    360   { pop$           %$
    361     organization field.or.null
    362     inc.j
    363   }
    364   'skip$           %$
    365   if$             %$
    366 }
    367
    368 FUNCTION {editor.q}
    369 { duplicate$ empty$
```



```

370 { pop$ %$
371 editor field.or.null
372 inc.j
373 }
374 'skip$ %$
375 if$ %$
376 }
377
378 FUNCTION {author.q}
379 { duplicate$ empty$
380 { pop$ %$
381 author field.or.null
382 inc.j
383 }
384 'skip$ %$
385 if$ %$
386 }
387
388 FUNCTION {blank.q}
389 { duplicate$ empty$
390 'inc.j
391 'skip$ %$
392 if$ %$
393 }

```

`check.q` \stackstring-S warning-stringstring-S

This should be the final queue command, though it is not a true queue command, since an extra warning string should be on the top of the stack above the string that has passed along the queue. The warning string should be an English disjunctive list of the queue commands that have come before it, so the user can tell which fields are missing. For example “author, organization, or key” if the queue has been `author.q` `'blank.q` `'organization.q` `key.q`.

If the queue string is empty, `check.q` issues the warning and puts on the stack an emergency string of the \LaTeX key (i.e., `cite$`), which should allow $\text{BIB}\TeX$ to proceed.

```

394 FUNCTION {check.q}
395 { 't :=
396 duplicate$ empty$
397 { pop$ %$
398 cite$ format.clip 'u := %$
399 "Need " t * " in " * cite$ * "; using: " * u * warning$
400 u
401 inc.j
402 }
403 'skip$ %$
404 if$ %$
405 }

```

4.10 Format functions `dox`

The format functions modify a string on the stack. They make no warnings, produce no output, and place no spaces or punctuation before or after their string, just modify it somehow.

4.11 Format names functions

`format.names.for.label` Format string on stack it to produce something appropriate for `label`.

Comma usage examples in the *Chicago Manual*: “A et al.” and “A, B, et al.”

The *Chicago Manual* recommends for labels: use up to 3 names, and above 3 use 1st + etal. When this would lead to ambiguity, use one of 3 solns: use all names, use as many as needed to disambiguate, or include a (short) title to disambiguate: (Zipursky et al., *Brief Title*, 1988).

The *Chicago Manual* does not appear to distinguish between “et al.” and “and others”. It’s possible to change the logic here to distinguish between the cases where the bibstyle is truncating the list of authors, and the case where “and others” appears in the `bib` file. But I’m not doing that now.

Labels:

FIX: this stuff not implemented yet	1 author	Foo
	2 authors	Foo and Bar
	3 authors	Foo, Bar, and Baz
	4+ authors	Foo et al.
	1+ author “and others”	Foo et al.

This function is probably more general than it needs to be, but it’s a nice model.

```
406 FUNCTION {format.names.for.label}
407 { 's :=
408   s num.names$ 'numnames :=          %$
409   s #1 "{vv~}{ll}" format.name$      %$
410   s numnames "{ff}{vv}{ll}{jj}" format.name$ "others" = %$
411   numnames #3 >
412   or
413   % more than 3 names, or final name is "others"
414   { etal *
415   }
416   { numnames #1 - 'namesleft :=
417     #2 'nameptr :=
418   % WHILE
419   { namesleft #0 > }
420   { nameptr numnames =
421     % we're on the final name (and it's not "others")
422     { numnames #2 >
423     { comma *
424     }
425     'skip$          %$
426     if$             %$
427     " and " * s nameptr "{vv~}{ll}" format.name$ * %$
428     }
429     % we're not on the final name (in this case: 2d of 3 names)
430     { comma * space *
431     s nameptr "{vv~}{ll}" format.name$ * %$
432     }
433     if$             %$
434     nameptr #1 + 'nameptr :=
435     namesleft #1 - 'namesleft :=
436   }
437   while$          %$
```

```

438     }
439   if$                               %$
440 }

```

`format.names.lastfirst` Pop a string containing a name list. Push a string with the first author last-name-first and subsequent authors first-name-first.

```

441 FUNCTION {format.names.lastfirst}
442 { 's :=
443   s num.names$ 'numnames :=      % numnames = num.name$(s);
444   numnames 'namesleft :=
445   #1 'nameptr :=                  % nameptr = 1;
446   % WHILE
447   { namesleft #0 > }
448   { nameptr #1 =
449     { s nameptr "{vv~}{ll}{, jj}{, ff}" format.name$           %$
450     }
451     { comma *
452       s nameptr "{ff~}{vv~}{ll}{, jj}" format.name$ 't :=      %$
453       nameptr numnames =
454       % final name
455       { t "others" =
456         { etal *
457         }
458         { " and " * t *
459         }
460         if$                               %$
461         }
462       % names both precede and follow this name
463       { space * t *
464       }
465       if$                               %$
466       }
467       if$                               %$
468       nameptr #1 + 'nameptr :=          % nameptr += 1;
469       namesleft #1 - 'namesleft :=     % namesleft -= 1;
470     }
471     while$                               %$
472 }

```

`format.names.firstfirst` Same as `format.names.lastfirst` but all names are first name first.

```

473 FUNCTION {format.names.firstfirst}
474 { 's :=
475   s num.names$ 'numnames :=      % numnames = num.name$(s);
476   numnames 'namesleft :=
477   #1 'nameptr :=                  % nameptr = 1;
478   % WHILE
479   { namesleft #0 > }
480   { s nameptr "{ff~}{vv~}{ll}{, jj}" format.name$ 't :=      %$
481     nameptr #1 =
482     't
483     { nameptr numnames =
484       % final name
485       { numnames #2 >
486         { comma *

```

```

487     }
488     'skip$           %$
489     if$             %$
490     t "others" =
491     { etal *
492     }
493     { " and " * t *
494     }
495     if$             %$
496   }
497   % names both precede and follow this name
498   { comma * space * t *
499   }
500   if$             %$
501 }
502 if$               %$
503 nameptr #1 + 'nameptr :=      % nameptr += 1;
504 namesleft #1 - 'namesleft := % namesleft -= 1;
505 }
506 while$           %$
507 }

```

4.12 Make functions

Make functions expect nothing on the stack, and leave one string there. Any side effects of setting global variables are noted in the comments. If a nonempty string cannot be made due to lack of the right fields, leave an empty one on the stack.

`make.annotation` Annotations can be omitted by nullifying the `SCannotation` environment.

```

508 FUNCTION {make.annotation}
509 { annotation empty$ %$
510   { ""
511   }
512   { "\begin{SCannotation}"
513     annotation *
514     "\end{SCannotation}" *
515   }
516 if$ %$
517 }

```

`make.edition` We use some logic here because we want to use the ‘‘seriesedition for the ‘‘edition in certain cases.

```

518 FUNCTION {make.edition}
519 { edition empty$ %$
520   { seriesedition empty$ not series field.or.null title field.or.null = and %$
521     { seriesedition
522     }
523     { ""
524     }
525   if$ %$
526   }
527 { edition
528 }

```

```

529 if$ %$
530 }

```

`make.year.month` Make a year string. We don't we use `year.label` because that string is sterilized
`make.year.nomonth` to make it appropriate for use in running text in citations (and for sorting I think);
in the bibliography entry, we can be a little more lax, accepting special characters,
and text that is not simply four numerals.

```

531 FUNCTION {make.year.month}
532 { year empty$ %$
533   { ""
534   }
535   { year year.label.tag *
536 month empty$ %$
537   'skip$ %$
538   { comma * space * month *
539   }
540 if$ %$
541   }
542   if$ %$
543 }
544 FUNCTION {make.year.nomonth}
545 { year empty$ %$
546   { ""
547   }
548   { year year.label.tag *
549   }
550 if$ %$
551 }

```

`make.year.or.oyear.month` Push a string with year information. If "oyear is empty, call `make.year.month`.
Warn in the almost-certainly-erroneous case of an "oyear without a "year.

```

552 FUNCTION {make.year.or.oyear.month}
553 { oyear empty$ %$
554   { make.year.month
555   }
556   { year empty$ %$
557     { "oyear without year in " cite$ * warning$
558     }
559     'skip$ %$
560     if$ %$
561     oyear year.label.tag *
562     month empty$ %$
563     'skip$ %$
564 { comma * space * month *
565   }
566   if$ %$
567   }
568 if$ %$
569 }

```

`make.leaditem.with.tags` Push `leaditem` and if it's an editor, include a nice taggy.

```

570 FUNCTION {make.leaditem.with.tags}
571 { leaditem

```

```

572 principal-type editor.ptype =
573   { editor num.names$ #1 >           %$
574 { ",~eds." *
575 }
576 { ",~ed." *
577 }
578   if$                               %$
579   }
580   'skip$                             %$
581 if$                                  %$
582 }

```

make.editors.secondary Give editors' names when not for the leaditem.

```

583 FUNCTION {make.editors.secondary}
584 { editor empty$                       %$
585   { ""
586   }
587   { output.state after.sentence =
588     output.state after.block = or
589     { "E"
590     }
591     { "e"
592     }
593     if$                               %$
594     "dited by " * editor format.names.firstfirst *
595   }
596 if$                                   %$
597 }

```

make.bookauthors.secondary This is for making authors' names that follow a title. When we use this, we are only going to be interested in the " bookauthor.

```

598 FUNCTION {make.bookauthors.secondary}
599 { bookauthor empty$                   %$
600   { ""
601   }
602   { output.state after.sentence =
603     output.state after.block =
604     or
605     { "B"
606     }
607     { "b"
608     }
609     if$                               %$
610     "y " * bookauthor format.names.firstfirst *
611   }
612 if$                                   %$
613 }

```

make.translators Translators and illustrators are always secondary, until I write some extensions.

```

make.illustrators 614 FUNCTION {make.translators}
615 { translator empty$                   %$
616   { ""
617   }
618   { output.state after.sentence =

```

```

619     output.state after.block =
620     or
621     { "T"
622     }
623     { "t"
624     }
625     if$                %$
626     "ranslated " *
627     flanguage empty$   %$
628     'skip$            %$
629     { "from the " * flanguage * space *
630     }
631     if$                %$
632     "by " * translator format.names.firstfirst *
633   }
634   if$                %$
635 }
636
637 FUNCTION {make.illustrators}
638 { illustrator empty$   %$
639   { ""
640   }
641   { output.state after.sentence =
642     output.state after.block =
643     or
644     { "I"
645     }
646     { "i"
647     }
648     if$                %$
649     "illustrated by " * illustrator format.names.firstfirst *
650   }
651   if$                %$
652 }

```

make.booktitle.ital FIX: multilingual

```

make.title.ital 653 FUNCTION {make.title.ital}
make.as.ftitle.ital 654 { title field.or.null italicize
655 }
656
657 FUNCTION {make.booktitle.ital}
658 { booktitle field.or.null italicize
659 }
660
661 FUNCTION {make.as.ftitle.ital}
662 { ftitle empty$   %$
663   { ""
664   }
665   { "as " ftitle italicize *
666   }
667   if$                %$
668 }

```

make.title.inquotes Put the title in quotes on the stack. \Wrapquotes is going to properly handle

punctuation that follows the closing quotation marks by sucking it inside the quotes. FIX: make generic function `format.wrapquotes?` like `format.emphasize?` FIX: make all those function that transform a string on the stack into “format” functions.

```

669 FUNCTION {make.title.inquotes}
670 { title empty$           %$
671   { ""
672   }
673   {
674     "\Wrapquotes{" title * "}" *
675   }
676   if$                       %$
677 }

678 FUNCTION {make.pages}
679 { pages empty$           %$
680   { ""
681   }
682   { pages format.n.dashify
683   }
684   if$                       %$
685 }

```

`ce.vol.series.num.month.pages`

For articles, the number of cases to handle these fields is very large: 32 to do it properly! These cases could perhaps be collapsed, but it is going to be much easier to read here and to maintain if we do it brutishly by elaborating each case. The only exception I’ve made is when two adjacent leaves are very similar. The way I’ve laid out this function here, adjacent leaves are going to be the pairs of cases with and without a nonempty “pages.

There are 5 relevant fields, each of which can be empty or not ($2^5 = 32$). In the comments below, I mark each case with a series of 1 to 5 letters represent the cases where that field is nonempty: V for “volume, S for “series, N for “number, M for “month, and P for “pages. Thus, the case marked with the comment SMP is the one where the “series, “month, and “pages fields are nonempty, and “volume and “number are empty.

FIX: when I use `make.pages` in this function, it’s slightly inefficient, since `make.pages` does a check for empty pages which is unnecessary here.

FIX: this does not yet handle entries with nonempty “series.

FIX: go through and combine adjacent leaves.

We could really put the punctuation that should precede this unit right at the beginning of the string we’re making here, but let’s conform better to the conventions and put this in the scratch variable `’u` instead. I don’t think this function will ever get called at any time other than mid-sentence, after the journal title, but who knows. So a call to this function should look like:

```
make.vol.series.num.month.pages u output
```

Remember that when `output.internal` writes the punctuation, it adds a space following, so it is unnecessary to begin the string this function returns with a space. (Occasionally below, we want (and produce) a colon followed by no space; we can do this because we are directly creating this string, not using the `output` routine.)

```
686 FUNCTION {make.vol.series.num.month.pages}
```



```

687 { volume empty$                %$
688   { series empty$                %$
689     { number empty$              %$
690       { month empty$             %$
691 { pages empty$                  %$
692   % none of VSNMP
693   { space 'u :=
694     ""
695   }
696   % P
697   { comma 'u :=
698     multipage.p
699     { "pp." pages format.n.dashify
700   }
701     { "p." pages
702   }
703   if$                             %$
704   tie.or.space.connect
705   }
706   if$                             %$
707 }
708 { pages empty$                  %$
709   % M
710   { comma 'u :=
711     month
712   }
713   % MP
714   { comma 'u :=
715     month comma * space * make.pages *
716   }
717   if$                             %$
718 }
719   if$                             %$
720   }
721   { month empty$                  %$
722 { pages empty$                  %$
723   % N
724   { comma 'u :=
725     "no." number tie.or.space.connect
726   }
727   % NP
728   { comma 'u :=
729     "no." number colon * make.pages * tie.or.space.connect
730   }
731   if$                             %$
732 }
733 { pages empty$                  %$
734   % NM
735   { comma 'u :=
736     "no." number tie.or.space.connect
737     space * month parenthesize *
738   }
739   % NMP
740   { comma 'u :=

```

```

741          "no." number tie.or.space.connect
742          space * month parenthesize *
743          colon * space * make.pages *
744      }
745  if$          %$
746 }
747     if$          %$
748     }
749  if$          %$
750     }
751     { number empty$          %$
752     { month empty$          %$
753 { pages empty$          %$
754     % S
755     {
756     }
757     % SP
758     {
759     }
760  if$          %$
761 }
762 { pages empty$          %$
763     % SM
764     {
765     }
766     % SMP
767     {
768     }
769  if$          %$
770 }
771     if$          %$
772     }
773     { month empty$          %$
774 { pages empty$          %$
775     % SN
776     {
777     }
778     % SNP
779     {
780     }
781  if$          %$
782 }
783 { pages empty$          %$
784     % SNP
785     {
786     }
787     % SNMP
788     {
789     }
790  if$          %$
791 }
792     if$          %$
793     }
794  if$          %$

```

```

795     }
796     if$                %$
797 }
798 { series empty$      %$
799   { number empty$    %$
800   { month empty$     %$
801 { pages empty$      %$
802   % V
803   { comma 'u :=
804     "vol." volume tie.or.space.connect
805   }
806   % VP
807   { space 'u :=
808     volume colon * make.pages *
809   }
810 if$                %$
811 }
812 { pages empty$      %$
813   % VM
814   { comma 'u :=
815     "vol." volume tie.or.space.connect
816     space * month parenthesize *
817   }
818   % VMP
819   { space 'u :=
820     volume space *
821     month parenthesize * colon * space * make.pages *
822   }
823 if$                %$
824 }
825     if$                %$
826     }
827     { month empty$    %$
828 { pages empty$      %$
829   % VN
830   { space 'u :=
831     volume ", no." number tie.or.space.connect *
832   }
833   % VNP
834   { space 'u :=
835     volume space *
836     number parenthesize * colon * space * make.pages *
837   }
838 if$                %$
839 }
840 { pages empty$      %$
841   % VNM
842   { space 'u :=
843     volume ", no." number tie.or.space.connect *
844     space * month parenthesize *
845   }
846   % VNMP
847   { space 'u :=
848     volume space * number parenthesize * colon * space *

```

```

849             make.pages * space * month parenthesize *
850         }
851     if$           %$
852 }
853     if$           %$
854     }
855     if$           %$
856         }
857         { number empty$           %$
858     { month empty$           %$
859 { pages empty$           %$
860     % VS
861     {
862     }
863     % VSP
864     {
865     }
866     if$           %$
867 }
868 { pages empty$           %$
869     % VSM
870     {
871     }
872     % VSMP
873     {
874     }
875     if$           %$
876 }
877     if$           %$
878     }
879     { month empty$           %$
880 { pages empty$           %$
881     % VSN
882     {
883     }
884     % VSNP
885     {
886     }
887     if$           %$
888 }
889 { pages empty$           %$
890     % VSNM
891     {
892     }
893     % VSNMP
894     {
895     }
896     if$           %$
897 }
898     if$           %$
899     }
900     if$           %$
901         }
902     if$           %$

```

```

903     }
904   if$                               %$
905 }

```

make.crossref

```

906 FUNCTION {make.crossref}
907 { "\citeNP{" crossref * "}" *
908 }

```

output.series.number Outputs the number with appropriate capitalization. Warns if we also have nonempty "seriesedition."

```

909 FUNCTION {output.series.number}
910 { series empty$                               %$
911   { number empty$                               %$
912     { ""
913     }
914     { "Can't use 'number' without 'series' in " cite$ * warning$
915       ""
916     }
917   if$                                           %$
918   }
919   { number empty$                               %$
920 { series
921     seriesedition empty$                         %$
922     'skip$                                       %$
923     { comma output
924       new.block
925       seriesedition
926     }
927     if$                                           %$
928 }
929 { series space *
930     "no." *
931     number tie.or.space.connect
932     "number and seriesedition" seriesedition either.or.check
933 }
934   if$                                           %$
935   }
936 if$                                             %$
937 comma output
938 }

```

output.volume.series The "series" is not required. FIX: why do we output stuff here? can't we use a make function like elsewhere?

```

939 FUNCTION {output.volume.series}
940 { volume empty$                               %$
941   { ""
942   }
943   { "Volume" volume tie.or.space.connect
944     series empty$                               %$
945     'skip$                                       %$
946     { " of " * series italicize *
947       seriesedition empty$                       %$
948     'skip$                                       %$

```

```

949         { comma output
950           new.block
951           seriesedition
952         }
953     if$                                     %$
954 }
955 if$                                       %$
956     "volume and number" number either.or.check
957 }
958 if$                                     %$
959 comma output
960 }

```

`make.chapter.of` To say for example “Part 3” instead of “Chapter 3”, put “Part” into the ‘ type field, and the number and the preposition into the ‘ chapter field, e.g., “3 of”. A tie is automatically put in between the ‘ type field and the ‘ chapter field in this case. We can’t make a decision based on the length of the ‘ chapter field when it’s going to contain the preposition.

OK, putting the preposition in the chapter field doesn’t work out when you do crossreferences. So let’s try “of” as a general preposition.

```

961 FUNCTION {make.chapter.of}
962 { chapter empty$          %$
963   { ""
964   }
965   { type empty$          %$
966     { "Chapter"
967     }
968     { type "t" change.case$      %$
969     }
970     if$          %$
971     chapter tie.or.space.connect
972     " of " *
973   }
974 if$          %$
975 }

```

`make.chapter`

```

976 FUNCTION {make.chapter}
977 { chapter empty$          %$
978   { ""
979   }
980   { type empty$          %$
981     { "Chapter"
982     }
983     { type "t" change.case$      %$
984     }
985     if$          %$
986     chapter tie.or.space.connect
987   }
988 if$          %$
989 }

```

`make.number.tr`

```

990 FUNCTION {make.number.tr}
991 { type empty$          %$
992   { "Technical Report"
993   }
994   { type "t" change.case$      %$
995   }
996   if$          %$
997   number empty$          %$
998   'skip$          %$
999   { number tie.or.space.connect
1000  }
1001  if$          %$
1002 }

```

4.13 Label and principal field functions

calc.labels Set label and year.label from the original database. Set leaditem. For reference from above: " author ('#0') " editor ('#1'), " organization ('#2'), and " key ('#3').

FIX: NOTE: the entry-type functions (and specifically its subroutines like make.authors) are going to assume that bibentry contains the right field as calculated by

format the string on the stack based on the GLOBAL (not entry) variable j (= bibentry.type)

confusion here over terminology. bibentry and leaditem are the same thing, but it is also the basis for calculating the label. let's call the most important field for each type the PRINCIPAL field. this will be put into the lead position in the bibentry and also be massaged into the label. FIX: new idea, start using it leaves a string on the stack based on TYPE; the string is the first non-empty relevant field for the type, or an emergency substitution as supplied by check.q. FIX: end.the.q? would emergency be a 5th type that the format.principal-field functions should recognize?

Yes, check.q will put full cite-string on as emergency and set principal-type accordingly.

FIX: ensure proper warnings if we are not getting something good in principal-field.

```

1003 FUNCTION {set.principal-field.principal-type}
1004 { type$ "book" =          %$
1005   type$ "inbook" =        %$
1006   or
1007   { start.a.q
1008     author.q
1009     editor.q
1010     blank.q
1011     key.q
1012     "author, editor, or key for entry type " type$ * check.q      %$
1013   }
1014   { type$ "proceedings" =          %$
1015     { start.a.q
1016       blank.q
1017       editor.q
1018       organization.q

```

```

1019         key.q
1020         "editor, organization, or key for entry type " type$ * check.q    %$
1021     }
1022     { type$ "manual" =                %$
1023         { start.a.q
1024             author.q
1025             blank.q
1026             organization.q
1027             key.q
1028             "author, organization, or key for entry type " type$ * check.q    %$
1029         }
1030         % for all other entry types
1031         { start.a.q
1032             author.q
1033             blank.q
1034             blank.q
1035             key.q
1036             "author or key for entry type " type$ * check.q        %$
1037         }
1038         if$                %$
1039     }
1040     if$                %$
1041 }
1042 if$                %$
1043 'principal-field :=
1044 j 'principal-type :=
1045 }
1046
1047 % TRUE if we've got \evar{principal-type} of \gvar{organization.ptype} and
1048 % nonempty \field{key} and entry type of \entry{manual} or \entry{proceedings}.
1049 FUNCTION {key.special.p}
1050 {     type$ "manual" =                %$
1051 type$ "proceedings" =                %$
1052     or
1053     principal-type organization.ptype =
1054     and
1055     key empty$ not                %$
1056 and
1057 }
1058
1059 FUNCTION {make.leaditem}
1060 { key.special.p
1061     % is \field{key} all-caps?
1062     { key duplicate$ "u" change.case$ =
1063         % if so, key is assumed to be an acronym FIX; should I warn what we're doing?
1064         { key " (" * organization * ")" *
1065         }
1066         % if not, key is assumed to be an initial prefix (abbreviation) of organization
1067         % for use only in the label
1068         { organization
1069         }
1070     if$                %$
1071 }
1072 { principal-field

```



```

1073 principal-type author.ptype =
1074 principal-type editor.ptype =
1075     or
1076 { format.names.lastfirst
1077 }
1078 % organization, key, or emergency ptype
1079 'skip$           %$
1080     if$           %$
1081     }
1082 if$           %$
1083 }
1084
1085 FUNCTION {make.label.from.principal-field}
1086 { principal-field
1087     principal-type author.ptype =
1088     principal-type editor.ptype =
1089     or
1090     { format.names.for.label
1091     }
1092     % organization, key, or emergency
1093     'skip$           %$
1094 if$           %$
1095 }
1096
1097 FUNCTION {make.label}
1098 { key.special.p
1099     { key
1100     }
1101     { make.label.from.principal-field
1102     }
1103 if$           %$
1104 }

```

`format.names.for.sort` \backslash stack(*list of names*) \langle *list of names suitable for sorting* \rangle

FIX: add dox here about how bibtex sorts, and the spaces strategy.

- 1 between tokens of a name part (word-by-word method; only after first-name's initials in letter-by-letter)
- 2 between name-parts in a name (but consider 'von' and 'last' one name-part)
- 3 between names in a name list
- 4 between other sort levels, such as names and years

We don't bother to `format.sortify.clip`, just do

that once before assignment to the sort.key.

Chicago Manual specifies all names should be given in the bibliography. FIX ref. So the *Chicago Manual* doesn't tell us how to handle the conventional "and others" that might be in the database. We handle it by proceeding on the assumption that "and others" always means the total names are more than 3, so we want to alphabetize these entries after all those with 1, 2, or 3 names. We do this by turning "and others" into a pseudo-name that will sort later than any real name (i.e., we insert a lot of z's).

The commented-out format is doing word-by-word alphabetization as defined §17.97 with the exception of hyphens. `purify$` turns hyphens into spaces, so hyphens are word boundaries, unlike slashes and apostrophes, which are suppressed. The *Chicago Manual* says hyphens should be suppressed like slashes and apostrophes, so we need to remove them with `format.dehyphen` before we `purify$`.

The *Chicago Manual* prefers letter-by-letter alphabetization, which is what the active code below does. We suppress spaces between tokens of a name part. We need to remove hyphens as explained above.

NOTE: We could therefore change our delimiters all down by one, since single space delimiters are no longer used, but I think there is no harm in starting with a 2-space delimiter, and this lets us change back and forth easily.

FIX: §17.100 names with initials in place of given names should precede those names which are spelled out. "J. Robert" before "James N." and "K. T." before "Keven S.". This is not consistent with the letter-by-letter method (it is with word-by-word). So, we want to insert a space after first-name tokens of length 1. How do we do that!?

FIX: do we need special handling for names with Saint, Mac, Mc, and M' §17.107–109?

```
1105
1106 % FIX: NOTE: \builtin{empty} returns TRUE if string contains no non-whitespace chars
1107 % FIX: other whitespace to check for?
1108
1109 % pop string, push its length not counting special chars as one char
1110 FUNCTION {length}
1111 { 'u :=
1112 % u "taking length of" debugval
1113 #0 'len :=
1114 % WHILE
1115 { u "" = not }
1116   { len #1 + 'len :=
1117     u #2 global.max$ substring$ 'u :=
1118   }
1119 while$      %$
1120 len
1121 % len int.to.str$ "      length is" debugval      %$
1122 }
1123
1124
1125 % FIX: a special+ char begins with a |{\| and continues through the next |}|.
1126 % \BibTeX{}'s "special character" is the same but only at brace level~0.
1127 % When we're stepping through a string, and we don't keep track of the brace
1128 % level, then those functions that recognize special chars are not going to
1129 % know the brace level, they will see every special+ char as a special char.
1130
```

```

1131 % pop string, push its first char counting special chars as one char
1132 % treat braces normally unless they are the start of a special char
1133 %
1134 % don't use \function{and} here for efficiency
1135 FUNCTION {head}
1136 { 'w :=
1137   w #1 #1 substring$      %$
1138   duplicate$ "{" =       %$
1139     { w #2 #1 substring$ "\" = %$
1140       { pop$           %$
1141         w #1 text.prefix$ %$
1142       }
1143     'skip$ %$
1144     if$ %$
1145   }
1146   'skip$ %$
1147   if$ %$
1148 }
1149
1150 % FIX: using 'and' and 'or' requires calculation of both where nested branches
1151 % would not; see where this will help.
1152
1153 % pop string, push string without its first char, counting special chars as one char
1154 FUNCTION {behead}
1155 { 'u :=
1156   u "beheading before" debugval
1157   u
1158   u head length #1 +
1159   global.max$ %$
1160   substring$ %$
1161 % duplicate$ "beheading after" debugval %$
1162 }
1163
1164 FUNCTION {behead.t}
1165 { t behead 't :=
1166 }
1167
1168 FUNCTION {format.dehyphen}
1169 { 't :=
1170 % t "dehyphen before" debugval
1171 ""
1172 % WHILE
1173 { t "" = not }
1174 { t head
1175   duplicate$ hyphen = %$
1176   { pop$ %$
1177   }
1178   { *
1179   }
1180   if$ %$
1181   behead.t
1182 }
1183 while$ %$
1184 % duplicate$ "dehyphen after" debugval %$

```

```

1185 }
1186
1187 % \builtin{text.length}: replace string on stack with its length, special chars count
1188 % as 1 char, don't count braces.
1189
1190 % \builtin{text.prefix}: like \builtin{substring} but count special chars as 1 char, don't
1191 % count braces, and supply a missing closing brace for a special-char. also,
1192 % have to always start at \#1.
1193
1194 % FIX: does \manual intend to skip over en-dash and em-dash? these could occur
1195 % in titles. For the moment I will remove them too, but not in special chars.
1196 % look at \function{format.n.dashify} to be able to distinguish hyphens from
1197 % the dashes.
1198
1199 FUNCTION {format.dehyphen.dewhitespace}
1200 { 't :=
1201 % t "dehyphen.dewhitespace before" debugval
1202 ""
1203 % WHILE
1204 { t "" = not }
1205 { t head
1206 duplicate$ %$
1207 duplicate$ hyphen = %$
1208 swap$ empty$
1209 or
1210 { pop$ %$
1211 }
1212 { *
1213 }
1214 if$ %$
1215 behead.t
1216 }
1217 while$ %$
1218 % duplicate$ "dehyphen.dewhitespace after" debugval %$
1219 }
1220
1221 FUNCTION {format.names.for.sort}
1222 { 's :=
1223 #1 'nameptr :=
1224 s num.names$ 'numnames := %$
1225 numnames 'namesleft :=
1226 % WHILE
1227 { namesleft #0 > }
1228 {
1229 % NOTE: order or name-parts ought to follow that used for leaditem
1230 % word-by-word alphabetization:
1231 % s nameptr "{vv{ }}{ll{ }}{ jj{ }}{ ff{ }}" format.name$ %$
1232 % letter-by-letter alphabetization, no attention to initials:
1233 % s nameptr "{vv{} }{ll{} }{ jj{} }{ ff{} }" format.name$ %$
1234
1235 % letter-by-letter alphabetization, with first initials exception:
1236
1237 s nameptr "{vv{} }{ll{} }{ jj{} }" format.name$ %$
1238

```

```

1239 % Each first-name token of the form of an initial ("L.") will be followed by a
1240 % space but other spaces will be removed.
1241
1242 % Algorithm: step through looking for space, which terminates name tokens,
1243 % adding non-spaces to an accumulator on the stack as we go.
1244 % When we find a space, look at the accumulator (a whole name token).
1245 % If it's length is 2 and 2d char is a period, we've got an initial, so
1246 % add the space to the accumulator. If not, throw away the space
1247 % and step on looking for another name.
1248
1249 % FIX: would it be simpler to replace periods with spaces?
1250 %     would a period ever appear in a first-name when not an initial?
1251 %     Rev.? Col.? These should be alphabetized as spelled out, prob.
1252 %     but need to check \manual
1253
1254 % duplicate$ "beginning of initials funniness; last-part is" debugval %$
1255
1256 s nameptr "{ff{ } }" format.name$ 't := %$
1257 % t is "F1 F2 F3 ... FN " or empty
1258
1259 % t "initial t" debugval
1260
1261 t empty$ %$
1262 'skip$ %$
1263 { delimiter.name-part *
1264     "" % accumulator
1265     % WHILE
1266     { t "" = not }
1267     { t head
1268 % duplicate$ "stepping. t is [" t * "]" and head is" * debugval %$
1269     duplicate$ empty$
1270     % last char will always be a space
1271     % accumulator contains whole name token
1272     { pop$ %$ throw space away for now; top of stack is now accumulator
1273 % duplicate$ "found a space; accumulator is" debugval %$
1274     duplicate$ %$
1275     duplicate$ text.length$ #2 = % 2 chars long
1276     swap$ behead head period = %$ 2d char is period
1277     and
1278     % name token in accumulator is an initial, so add a space to it
1279     { space *
1280 % duplicate$ "found an initial" debugval %$
1281     }
1282     % name token in accumulator is not an initial
1283     'skip$ %$
1284     if$ %$
1285     % in either case, concatenate the accumulator the name on the
1286     % stack and initialize it again
1287 % duplicate$ "adding to name" debugval %$
1288     * ""
1289     }
1290     % accumulator contains partial name token
1291     % add t's head (not a space) to accumulator
1292     { *

```



```

1343     }
1344     if$           %$
1345   }
1346   if$           %$
1347 }

```

4.14 Begin and end entries

begin.entry Begin an entry.

```

1348 FUNCTION {begin.entry}
1349 { output.begin
1350   output.bibitem
1351 }

```

finish.entry Conclude an entry. `\stackstringnull`

```

1352 FUNCTION {finish.entry}
1353 { add.period$           %$
1354   output.end
1355   newline$             %$
1356   make.annotation write$ %$
1357 }

```

4.15 Entry types

4.15.1 Article

article An article from a journal or magazine. Required: ‘‘ author, ‘‘ title, ‘‘ journal, ‘‘ year. Optional: ‘‘ volume, ‘‘ number, ‘‘ pages, ‘‘ month, ‘‘ note. Title quoted.

FIX: this is not true any more. hmm, which warnings to give? Warnings given for no ‘‘ pages; no ‘‘ volume or ‘‘ number; and ‘‘ number but no ‘‘ volume. It’s a drag, but the latter warning should remain there. The reason is that this bibstyle will produce a very misleading entry if you mistakenly omit the volume and give a number for a journal.

FIX: this is the old def of article, following output of title through end of crossref conditional.

```

        volume field.or.null
%   \end{macrocode}
% One item (the volume) is on the stack now. Each of the four cases in the
% following conditionals should leave a second item on the stack.
%   \begin{macrocode}
        number empty$           %$
        { volume empty$         %$
          { "empty volume and number in " cite$ * warning$
            ""
          }
          { colon
            }
          if$                     %$
        }
        { volume empty$         %$
          { "number but no volume in " cite$ * warning$
        }
%   \end{macrocode}

```

```

% FIX when a journal has no volume but a number, there should be a comma after
% the journal, a space and then ‘‘no. n:ppp’’. But we have already said
% ‘‘space output’’ after the journal name, no doubt. So we have to make this
% decision earlier.
%   \begin{macrocode}
%       "\unskip, no." tie * number * colon *
%   }
%   { "(" number * ")" * tie.or.space.connect
%   \end{macrocode}
% FIX: I don't think this is handling the case without pages right -- there
% will be a colon with nothing following. I could save either colon or
% colon+space in a variable, and slap it on before the pages if there are pages
% and leave it off if there are no pages. Hmm, no: see \manual 15.215
% for how to handle missing pages. Not easy.
%
% Now there's just one item (the volume) on the stack, so leave the following
% as the second item.
%   \begin{macrocode}
%       colon space *
%   }
%   if$
%   }
%   if$ *
%   make.pages "pages" check.empty *
%   space output
%   month parenthesize space output

```

A crossref from an article says ‘‘See this, pages xxx.’’ See *Chicago Manual* 16:107 for this peculiar bit about the spacing after the colon.

```

1358 FUNCTION {article}
1359 { begin.entry
1360   make.leaditem.with.tags space output
1361   new.block
1362   make.year.nomonth "year" check.empty space output
1363   new.block
1364   make.title.inquotes "title" check.empty space output
1365   new.block
1366   crossref empty$ %$
1367   { journal italicize "journal" check.empty space output
1368     series empty$ %$
1369     'skip$ %$

```

FIX: take this out when we finish make.vol.series.

```

1370   { "Chicago can not yet handle nonempty series! in " cite$ * warning$
1371   }
1372   if$ %$
1373   volume empty$ number empty$ month empty$ pages empty$ and and and
1374   { "empty volume, number, month, and pages in " cite$ * warning$
1375   }
1376   'skip$ %$
1377   if$ %$

```

See definition of make.vol.series.num.month.pages for why we set u in that function.


```

1378     make.vol.series.num.month.pages u output
1379 }

```

Unusual case where you are probably citing one journal issue and numerous articles within it, so you have one entry for the issue itself, and others referring to it. Perhaps there are other cases, but I think what's right here is to give the crossref and only the pages.

```

1380 { "In " make.crossref * space output
1381     make.pages "pages" check.empty comma output
1382 }
1383 if$                                     %$
1384 new.block
1385 note space output
1386 finish.entry
1387 }

```

4.15.2 Book

book

```

1388 FUNCTION {book}
1389 { begin.entry
1390     make.leaditem.with.tags comma output
1391     new.block
1392     make.year.or.oyear.month "year" check.empty comma output
1393     new.block
1394     make.title.ital "title" check.empty comma output
1395     new.block
1396     make.edition comma output
1397     new.block
1398     crossref empty$                                     %$
1399     { volume empty$                                     %$
1400         { output.series.number
1401             }
1402         { output.volume.series
1403             }
1404         if$                                             %$
1405         editor empty$ author empty$ or
1406         'skip$                                         %$
1407         { new.block
1408             make.editors.secondary comma output
1409         }
1410         if$                                             %$
1411         new.block
1412         make.translators comma output
1413         new.block
1414         make.illustrators comma output
1415         new.block
1416         oyear empty$                                     %$
1417         { address comma output
1418             publisher "publisher" check.empty colon output
1419         }
1420         { oaddress comma output
1421             opublisher "opublisher" check.empty colon output
1422         }

```

```

1423     "Reprint" comma output
1424     address field.or.null comma output
1425     publisher "publisher" check.empty
1426     address empty$                                %$
1427         { comma
1428         }
1429         { colon
1430         }
1431     if$                %$
1432     output
1433     year "year" check.empty comma output
1434 }
1435 if$                %$
1436 }
1437 { volume empty$                                %$
1438     { "In "
1439     }
1440     { "Volume" volume tie.or.space.connect
1441     " of " *
1442     }
1443     if$                %$
1444     make.crossref * comma output
1445 }
1446 if$                %$
1447 new.block
1448 yearcomp empty$                                %$
1449 'skip$                %$
1450 { "Composed in " yearcomp *
1451     comma output
1452     new.block
1453 }
1454 if$                %$

```

The ‘ fyear must be nonempty to get any information about the first-published edition,

The ‘ fpublisher, ‘ faddress, and ‘ flanguage can be empty in any combination. They are all ignored if ‘ fyear is empty, except for possibly ‘ flanguage, which will be given with the translator if ‘ translator is nonempty.

```

1455 fyear empty$
1456 'skip$
1457 { "First published "
1458     translator empty$ flanguage empty$ not and
1459     { "in " * flanguage * space *
1460     }
1461     'skip$
1462     if$

```

If ‘ ftitle is empty, there will be a harmless? extra space. FIX: surely i can fix that...

```

1463     make.as.ftitle.ital * space output
1464     faddress empty$ fpublisher empty$ not and
1465     { "by "
1466     }
1467     { "in "
1468     }

```

```

1469     if$                %$
1470     space output
1471     faddress space output
1472     fpublisher
1473     faddress empty$          %$
1474     { space
1475     }
1476     { colon
1477     }
1478     if$                %$
1479     output
1480     fyear
1481     faddress empty$ fpublisher empty$ and
1482     { space
1483     }
1484     { comma
1485     }
1486     if$ output          %$
1487     new.block
1488 }
1489 if$                    %$
1490 note comma output
1491 finish.entry
1492 }

```

4.15.3 Inbook

`inbook` *Chicago Manual* doesn't seem to recognize parts of a book without their own titles. We make up our own version, moving the chapter and page information from the end of the " booktitle to the beginning.

```

1493 FUNCTION {inbook}
1494 { begin.entry
1495   make.leaditem.with.tags comma output
1496   new.block
1497   make.year.or.oyear.month "year" check.empty comma output
1498   new.block

```

We store an extra copy of `make.chapter.of` in the variable `u` here, so that we know whether to put pages or not after the " title sentence (with editors, and so on).

```

1499   crossref empty$          %$
1500   { make.chapter.of
1501     duplicate$ 'u :=        %$
1502     duplicate$ empty$
1503     { pop$                  %$
1504       pages empty$         %$
1505       { "empty chapter, type, and pages in " cite$ * warning$
1506         "In "
1507       }
1508       { "Pages " make.pages * " in " *
1509       }
1510     if$                    %$
1511   }
1512   'skip$                   %$

```

```

1513     if$                %$
1514     comma output
1515     make.title.ital "title" check.empty space output
1516     make.bookauthors.secondary comma output
1517     make.editors.secondary comma output
1518     volume empty$      %$
1519     { output.series.number
1520     }
1521     { output.volume.series
1522     }
1523     if$                %$
1524     make.edition comma output

```

Here we branch again on the contents of `make.chapter.of`. If it is not empty, then we go ahead and `make.pages`. If it is empty we don't, because this means that if "pages were given, they have already been put earlier.

```

1525     u empty$          %$
1526     'skip$            %$
1527     { make.pages comma output
1528     }
1529     if$                %$
1530     new.block
1531     make.translators comma output
1532     new.block
1533     make.illustrators comma output
1534     new.block
1535     oyear empty$      %$
1536     { address comma output
1537     publisher "publisher" check.empty colon output
1538     }
1539     { oaddress comma output
1540     opublisher "opublisher" check.empty colon output
1541     new.block
1542     "Reprint" comma output
1543     address field.or.null comma output
1544     publisher "publisher" check.empty
1545     address empty$    %$
1546     { comma
1547     }
1548     { colon
1549     }
1550     if$                %$
1551     output
1552     year "year" check.empty comma output
1553     }
1554     if$                %$
1555     }
1556     % crossref not empty
1557     { "In " make.crossref * comma output
1558     make.chapter comma output
1559     make.pages comma output
1560     chapter empty$ pages empty$ and
1561     { "empty chapter and pages in " cite$ * warning$
1562     }

```

```

1563     'skip$           %$
1564     if$             %$
1565   }
1566   if$               %$
1567   new.block
1568   note comma output
1569   finish.entry
1570 }

```

4.15.4 Incollection

incollection

```

1571 FUNCTION {incollection}
1572 { begin.entry
1573   make.leaditem.with.tags comma output
1574   new.block
1575   make.year.or.oyear.month "year" check.empty space output
1576   new.block
1577 % FIX: use \field{type} to say what kind of title this is? e.g., play, poem,
1578 % chapter, story?
1579   make.title.inquotes "title" check.empty space output
1580   new.block
1581   crossref empty$           %$
1582   { make.chapter.of duplicate$ empty$
1583     { pop$                   %$
1584       "In "
1585     }
1586     'skip$                   %$
1587     if$                       %$
1588     space output
1589     make.booktitle.ital "booktitle" check.empty space output
1590     make.bookauthors.secondary comma output
1591     make.editors.secondary comma output
1592     volume empty$           %$
1593     { output.series.number
1594     }
1595     { output.volume.series
1596     }
1597     if$                       %$
1598     make.edition comma output
1599 % FIX: do I need this? I don't for copleston:cusa
1600 %   make.year.or.oyear.month "year" check.empty comma output
1601   make.pages comma output
1602   chapter empty$ type empty$ and pages empty$ and %$
1603     { "empty chapter, type, and pages in " cite$ * warning$
1604     }
1605     'skip$                   %$
1606     if$                       %$
1607     new.block
1608     make.translators space output
1609     new.block
1610     make.illustrators space output
1611     new.block
1612     oyear empty$           %$

```

```

1613     { address space output
1614     publisher "publisher" check.empty colon output
1615     }
1616     { oaddress space output
1617     opublisher "opublisher" check.empty colon output
1618     new.block
1619     "Reprint" comma output
1620     address comma output
1621     publisher "publisher" check.empty
1622     address empty$          %$
1623     { comma
1624     }
1625     { colon
1626     }
1627     if$                      %$
1628     output
1629     year comma output
1630     }
1631     if$                      %$
1632     }
1633     % crossref not empty
1634     { new.block
1635     "In " make.crossref * space output
1636     make.chapter comma output
1637     make.pages comma output
1638     chapter empty$ pages empty$ and
1639     { "empty chapter and pages in " cite$ * warning$
1640     }
1641     'skip$                   %$
1642     if$                      %$
1643     }
1644     if$                      %$
1645     new.block
1646     note space output
1647     finish.entry
1648 }

```

4.15.5 Majorthesis

`format.thesis` Theses are all set in the same way, with a different type name. An entry with entry type `thesis` ought to have a nonempty `""` type. The other four alias entry types `phdthesis`, `mastersthesis`, `majorthesis`, and `minorthesis` simply supply an explicit value for `""` type, which are overridden by a nonempty `""` type.

`majorthesis` FIX The `""` type field should be hooked into a variable and done with the `babel` package: `\majorthesisname` and so on.

```

1649 FUNCTION {format.thesis}
1650 { 'v :=
1651   begin.entry
1652   make.leaditem.with.tags comma output
1653   new.block
1654   make.year.month "year" check.empty space output
1655   new.block
1656   make.title.inquotes "title" check.empty space output

```

```

1657 new.block
1658 v "type" check.empty space output
1659 school "school" check.empty comma output
1660 address comma output
1661 new.block
1662 note space output
1663 finish.entry
1664 }
1665 FUNCTION {thesis}
1666 { type field.or.null format.thesis
1667 }
1668 FUNCTION{mastersthesis}
1669 { type empty$          %$
1670   { "Master's thesis"
1671   }
1672   { type
1673   }
1674   if$                  %$
1675   format.thesis
1676 }
1677 FUNCTION {minorthesis}
1678 { mastersthesis
1679 }
1680 FUNCTION {phdthesis}
1681 { type empty$          %$
1682   { "Ph.D.~diss."
1683   }
1684   { type
1685   }
1686   if$                  %$
1687   format.thesis
1688 }
1689 FUNCTION {majorthesis}
1690 { phdthesis
1691 }

```

4.15.6 Manual

manual Technical documentation. Required: ‘‘ title (italicized). Optional: ‘‘ author or ‘‘ organization or ‘‘ key, ‘‘ address, ‘‘ edition, ‘‘ month, ‘‘ year, ‘‘ note. Logic: leaditem is first nonempty field of ‘‘ author, ‘‘ organization, and ‘‘ key. Subsequent nonempty fields in that list are ignored. Special case: when principal-field is ‘‘ organization and ‘‘ key is nonempty, use ‘‘ key for the label instead of ‘‘ organization.

```

1692 FUNCTION {manual}
1693 { begin.entry
1694   make.leaditem.with.tags space output
1695   new.block
1696   make.year.month space output
1697   new.block
1698   make.title.ital "title" check.empty comma output
1699   new.block
1700   make.edition comma output

```

```

1701 new.block
1702 address space output
1703 organization colon output
1704 new.block
1705 note space output
1706 finish.entry
1707 }

```

4.15.7 Booklet

booklet A work that is printed and bound, but without a named publisher or sponsoring institution. Required: ‘ title. Optional: ‘ author, ‘ howpublished, ‘ address, ‘ month, ‘ year, ‘ note. Title is quoted. ‘ key used if ‘ author is empty.

```

1708 FUNCTION {booklet}
1709 { begin.entry
1710   make.leaditem.with.tags comma output
1711   new.block
1712   make.year.month space output
1713   new.block
1714   make.title.inquotes "title" check.empty comma output
1715   new.block
1716   howpublished space output
1717   address comma output
1718   new.block
1719   note space output
1720   finish.entry
1721 }

```

4.15.8 Inproceedings

inproceedings An article in a conference proceedings. Required: ‘ author, ‘ title, ‘ booktitle, ‘ year. Optional: ‘ editor, ‘ volume or ‘ number, ‘ series, ‘ pages, ‘ address, ‘ month, ‘ organization, ‘ publisher, ‘ note. ‘ key used where ‘ author empty. Title quoted.

```

1722 FUNCTION {inproceedings}
1723 { begin.entry
1724   make.leaditem.with.tags comma output
1725   new.block
1726   make.year.month "year" check.empty space output
1727   new.block
1728   make.title.inquotes "title" check.empty space output
1729   new.block
1730   crossref empty$           %$
1731   { make.editors.secondary space output
1732     make.booktitle.ital "booktitle" check.empty comma output
1733     volume empty$           %$
1734     { output.series.number
1735     }
1736     { output.volume.series
1737     }
1738     if$                       %$
1739     make.edition comma output
1740     new.block

```



```

1741     organization space output
1742     address comma output
1743     publisher colon output
1744     make.pages comma output
1745   }
1746   { "In " make.crossref * space output
1747     make.chapter comma output
1748     make.pages comma output
1749     chapter empty$ pages empty$ and
1750     { "empty chapter and pages in " cite$ * warning$
1751     }
1752     'skip$                %$
1753     if$                    %$
1754   }
1755   if$                      %$
1756   new.block
1757   note space output
1758   finish.entry
1759 }
1760 FUNCTION {conference}
1761 { inproceedings
1762 }

```

4.15.9 Proceedings

proceedings The proceedings of a conference. Required: " title, " year. Optional: " editor, " volume or " number, " series, " address, " month, " organization, " publisher, " note. If " editor empty, use " organization for `leaditem`. For label, like type manual, use nonempty " key for the label instead of " organization. Title italicized.

```

1763 FUNCTION {proceedings}
1764 { begin.entry
1765   make.leaditem.with.tags space output
1766   new.block
1767   make.year.month "year" check.empty space output
1768   new.block
1769   make.title.ital "title" check.empty comma output
1770   new.block
1771   make.edition comma output
1772   new.block
1773   volume empty$                %$
1774   { output.series.number
1775   }
1776   { output.volume.series
1777   }
1778   if$                          %$
1779   new.block
1780   organization space output
1781   address comma output
1782   publisher colon output
1783   new.block
1784   note comma output
1785   finish.entry

```

1786 }

4.15.10 Misc

Required: *none*. The rest are optional. ‘‘ leaditem is ‘‘ author or ‘‘ key if empty. ‘‘ year with ‘‘ month. Then ‘‘ title, quoted. Then ‘‘ howpublished. Then ‘‘ note.

```
1787 FUNCTION {misc}
1788 { begin.entry
1789   make.leaditem.with.tags comma output
1790   new.block
1791   make.year.month space output
1792   new.block
1793   title space output
1794   new.block
1795   howpublished comma output
1796   new.block
1797   note space output
1798   finish.entry
1799 }
```

4.15.11 Techreport

techreport A report published by a school or other institution, usually numbered within a series. Required: ‘‘ author, ‘‘ title, ‘‘ institution, ‘‘ year. Optional: ‘‘ type, ‘‘ number, ‘‘ address, ‘‘ month, ‘‘ note. ‘‘ key used when ‘‘ author empty.

```
1800 FUNCTION {techreport}
1801 { begin.entry
1802   make.leaditem.with.tags comma output
1803   new.block
1804   make.year.month "year" check.empty comma output
1805   new.block
1806   make.title.inquotes "title" check.empty comma output
1807   new.block
1808   make.number.tr comma output
1809   institution "institution" check.empty comma output
1810   address comma output
1811   new.block
1812   note comma output
1813   finish.entry
1814 }
```

4.15.12 Unpublished

unpublished A document having an author and title, but not formally published. Required: ‘‘ author, ‘‘ title, ‘‘ note. Optional: ‘‘ month, ‘‘ year. Uses ‘‘ key for no ‘‘ author.

```
1815 FUNCTION {unpublished}
1816 { begin.entry
1817   make.leaditem.with.tags comma output
1818   new.block
1819   make.year.month space output
1820   new.block
1821   make.title.inquotes "title" check.empty space output
1822   new.block
```

```

1823 note "note" check.empty space output
1824 finish.entry
1825 }

```

4.15.13 Default

`default.type` I think BIB_TE_X is hardwired to look for this name.

```

1826 FUNCTION {default.type}
1827 { misc }

```

4.16 Sorting

`chop.word` $\backslash\text{stack}\langle\text{string}\rangle\langle\text{num}\rangle\langle\text{string}\rangle\langle\text{string}\rangle$

```

% stack: S n T
%
% if S = substr(1,n,T)
%   then substr(n+1, max, T)
%   else S
%
% if T begins with S, then chop it off the beginning of T.
%

```

I guess we don't bother calculating the length for efficiency's sake.

```

1828 FUNCTION {chop.word}
1829 { 't :=
1830   'len :=
1831   t #1 len substring$ =          %$
1832   { t len #1 + global.max$ substring$
1833   }
1834   { t
1835   }
1836   if$          %$
1837 }

```

`make.title.for.sort` We don't bother to `format.sortify.clip`, just do that once before assignment to the `sort.key`.

```

1838 FUNCTION {make.title.for.sort}
1839 { title field.or.null
1840   't :=
1841   "A " #2
1842   "An " #3
1843   "The " #4 t chop.word
1844   chop.word
1845   chop.word
1846 % letter-by-letter alphabetization:
1847   format.dehyphen.dewhitespace
1848 }

```

`presort` Set `label`, `year.label`, `leaditem`. Set "`sort.key$` to `leaditem + year.label + title` suitably massaged.

Note that `year.label.tag` is not set yet; it will be set in stages in `forward.pass.add.bclds` and `reverse.pass.add.as`.

```

1849 FUNCTION {presort}
1850 { set.principal-field.principal-type
1851
1852 % "principals set for " cite$ * debugmsg      %$
1853 make.leaditem
1854 'leaditem :=
1855
1856 % "leaditem set for " cite$ * debugmsg      %$
1857 make.label
1858 'label :=
1859
1860 % "label set for " cite$ * debugmsg      %$
1861 oyear empty$          %$
1862   { year
1863   }
1864   { oyear
1865   }
1866   if$                %$
1867 % FIX: substring or text.prefix? if purify removes special chars then no diff.
1868 field.or.null purify$ #-1 #4 substring$
1869 'year.label :=
1870 }
1871
1872 FUNCTION {sortkey<-label+year+principal+title}
1873 { label
1874   delimiter.sub-sortkey *
1875   year.label *
1876   delimiter.sub-sortkey *
1877   make.principal-field.for.sort *
1878   delimiter.sub-sortkey *
1879   make.title.for.sort *
1880   format.sortify.clip
1881   'sort.key$ :=          %$
1882 }
1883
1884 FUNCTION {sortkey<-principal+year+year-tag}
1885 { make.principal-field.for.sort
1886   delimiter.sub-sortkey *
1887   year.label *
1888 % FIX if year.label is ever going to be a variable length, need some padding here?
1889   year.label.tag *
1890   format.sortify.clip
1891   'sort.key$ :=          %$
1892 }
1893
1894 FUNCTION {presort.&.sortkey<-label+year+principal+title}
1895 { presort
1896 % "presort done for " cite$ * debugmsg      %$
1897   sortkey<-label+year+principal+title
1898 % "sortkey set to label+year+principal+title for " cite$ * debugmsg      %$
1899 }

```

```
initialize.sorting-gvars
```

```
1900 FUNCTION {initialize.sorting-gvars}
```

```

1901 { unidentified 'last.leaditem :=
1902   unidentified 'last.label.and.year :=
1903   "" 'following.year.label.tag :=
1904   #0 'last.year.tag.num :=
1905 }

```

5 Disambiguating citations and sorting the bibliography

The initial calculation of citations can result in ambiguous labels for some entries. Two kinds of ambiguities can result:

same principal These are disambiguated by adding a unique lowercase letter to the end of the citations for each entry in the ambiguous set: (Smith 1980a) and (Smith 1980b); (Smith et al. 1970a), (Smith et al. 1970b). The order of the letters corresponds to the order of their appearance in the bibliography (see below).

different principal Different principals can have be (initially) given the same label in two cases: (1) the principals include 4 or more names and the initial names share a surname, and (2) the principals include the same number $n < 4$ of names and both the initial names and each of the subsequent names when present share a surname. In each case, the entries must also have the same year+tag, that is, the same year *including* any lowercase letters that might have been added. In both cases, ambiguous labels are disambiguated by adding first initials to those names which differ in the first name: (P. Smith 1980), (M. Smith 1980); (Green, Z. Black, and Meyer 1980), (Green, B. Black, and Meyer 1980); (Benson, Brown, Gray, White, B. Black, and Griscom 1900), (Benson, H. Brown, Gray, White, Z. Black, and Griscom 1900). When even first initials aren't enough to disambiguate, full names are used: (John D. Smith 1990), (John Q. Smith 1990); etc.

FIX: current behavior disambiguates all ambiguous citations by means of the lowercase letter. “A, B, C, and D 1999” together with “A, B, C, and E 1999” are going to resolve to “A et al 1999a” and 1999b. This nicely avoids disambiguation, but not what the Manual specifies.

FIX: current behavior is going to disambiguate citations that are ambiguous because authors share last but differ in first names by means of the lowercase letter: “Aa 1999” and “Ab 1999” become “Aa 1999a” and “Ab 1999b” (where ‘A’ stands for last name, and the ‘a’ right after it is the unmentioned first name). The Manual, however, specifies (16.3) disambiguating by using first initials in the label, such as “M. Brown 1999”.

add.bcds: work on getting the right `year.label.tag`. Compare current entry's `label` plus `year.label` to the last entry's, which is stored in the global string variable `last.label.and.year`. If they are the same, increment global integer variable `last.year.tag.num` and set `year.label.tag` to the n th lowercase letter, where n is `last.year.tag.num`. If they are not the same, set `last.label.and.year` to the current `label` plus `year.label`, set `year.label.tag` to empty string, and set `last.year.tag.num` to 0.

After add.bcds pass, year.label.tag will be blank for all first entries of an ambiguous series, and “b,” “c,” etc. for second entries, third entries, and so on. The “a”’s will be added in the right places by the reverse.pass.add.as function.

Handle duplicate leaditems. Compare current entry’s leaditem with the last entry’s, which is stored in the global string variable last.leaditem. When they are the same, wrap the current entry’s leaditem in \SCduplicate.

```

1906 FUNCTION {forward.pass.wrap.dupe.leaditems}
1907 { leaditem
1908   duplicate$ last.leaditem =                %$
1909   % we add the brace pair at the end because this forces add.period$ to add a %$
1910   % period after it. FIX: if we ever want \SCdup to actually print its
1911   % argument, we must get it to print its argument minus any final period.
1912   { "\SCduplicate{" swap$ * "{}}" * 'leaditem :=                %$
1913   }
1914   { 'last.leaditem :=
1915   }
1916   if$                %$
1917 }
1918 FUNCTION {forward.pass.add.bcds}
1919 { label year.label * format.clip
1920   duplicate$ last.label.and.year =          %$
1921   % same as previous entry
1922   { pop$                %$
1923     last.year.tag.num #1 + 'last.year.tag.num :=
1924     last.year.tag.num int.to.chr$ 'year.label.tag :=          %$
1925   }
1926   % different from previous entry
1927   { "a" chr.to.int$ 'last.year.tag.num :=          %$
1928     "" 'year.label.tag :=
1929     'last.label.and.year :=
1930   }
1931   if$                %$
1932 }
1933 % FIX: use a minimum of entry-variables to hold 'last' things.
1934 % FIX: change 'last' to 'prev' where appropriate. what about vars that might
1935 % be used going forward and back? always use 'prev'?
1936

```

reverse.pass.add.as Pass through the entries in reverse order. Set current year.label.tag to “a” on entries that precede ones with “b”s. Set following.year.label.tag to the current year.label.tag.

```

1937 FUNCTION {reverse.pass.add.as}
1938 { following.year.label.tag "b" =
1939   { "a" 'year.label.tag :=
1940   }
1941   'skip$                %$
1942   if$                %$
1943   year.label.tag 'following.year.label.tag :=
1944 }

```

begin.bib These two functions are called to begin and end the entire bibliography.

```

end.bib 1945 FUNCTION {begin.bib}
1946 { preamble$ empty$

```

```

1947     'skip$                %$
1948     { preamble$ write$ newline$           %$
1949     }
1950     if$                    %$
1951     "\begin{thebibliography}{}" write$ newline$
1952 }
1953 FUNCTION {end.bib}
1954 { newline$                %$
1955     "\end{thebibliography}" write$ newline$
1956 }

```

5.1 Actions

This is the main subroutine which calls all the others.

```

1957 READ
1958
1959 EXECUTE {init.scalars}
1960
1961 ITERATE {presort.&.sortkey<-label+year+principal+title}
1962 SORT
1963
1964 EXECUTE {initialize.sorting-gvars}
1965
1966 % add in "b"'s etc.
1967 ITERATE {forward.pass.add.bcads}
1968 % add in "a"'s
1969 REVERSE {reverse.pass.add.as}
1970
1971 ITERATE{sortkey<-principal+year+year-tag}
1972 SORT
1973
1974 EXECUTE {initialize.sorting-gvars}
1975 ITERATE {forward.pass.wrap.dupe.leaditems}
1976
1977
1978 EXECUTE {begin.bib}
1979 ITERATE {call.type$}           %$
1980 EXECUTE {end.bib}

```

References

- Abbey, Edward. 1968. *Desert Solitaire*. Ballantine.
- Abbey, Edward, and Philip Hyde. 1987. *Slickrock*. Peregrine Smith.
- Abrams, M. H. 1953. *The Mirror and the Lamp: Romantic Theory and the Critical Tradition*. London: Oxford University Press.
- . 1973. *Natural Supernaturalism: Tradition and Revolution in Romantic Literature*. New York: W. W. Norton and Co.
- Abrams, M. H., et al., eds. 1979. *The Norton Anthology of English Literature*. 4th ed. 2 vols. New York: W. W. Norton and Co.
- Acheson, James. 1979. "Murphy's Metaphysics." *Journal of Beckett Studies*, no. 5:9–23.
- Ackerley, C. J. 1998a. *Demented Particulars: The Annotated Murphy*. Published as volume 7 nos. 1–2 of the *Journal of Beckett Studies*.
- Ackerley, Chris. 1997. "'Do Not Despair': Samuel Beckett and Robert Greene." *Journal of Beckett Studies*, n.s., 6 (1): 119–24.
- . 1998b. "Samuel Beckett's Sibilants; or, Why Does Murphy Hiss?" *Journal of Beckett Studies*, n.s., 8 (1): 119–20.
- Admussen, Richard L. 1979. *The Samuel Beckett Manuscripts: A Study*. Boston: G. K. Hall and Co.
- Alighieri, Dante. 1982–86. *The Divine Comedy*. Bantam Classic ed. The Divine Comedy. Translated from the Italian by Allen Mandelbaum. Illustrated by Barry Moser. New York: Bantam Books.
- . 1954a. *The Inferno*. Translated from the Italian by John Ciardi. New York: New American Library.
- . 1954b. *The Inferno*. Translated from the Italian by John Ciardi. Penguin.
- . 1961. *The Purgatorio*. Translated from the Italian by John Ciardi. New York: New American Library.
- . 1970. *The Paradiso*. Translated from the Italian by John Ciardi. New York: New American Library.
- . 1982. *Purgatorio: A Verse Translation*. Bantam Classic ed. Volume 1 of Alighieri 86. Notes by Allen Mandelbaum and Gabriel Marruzzo, with Larry Magnus.
- . 1984. *Purgatorio: A Verse Translation*. Bantam Classic ed. Volume 2 of Alighieri 86. Notes by Laury Magnus, Allen Mandelbaum, and Anthony Oldcorn, with Daniel Feldman.
- . 1986. *Purgatorio: A Verse Translation*. Bantam Classic ed. Volume 3 of Alighieri 86. Notes by Anthony Oldcorn and Daniel Feldman, with Giuseppe Di Scipio.
- Allison, Alexander W., et al., eds. 1983. *The Norton Anthology of Poetry*. 3d ed. New York and London: W. W. Norton and Co.
- Amiran, Eyal. 1993. *Wandering and Home: Beckett's Metaphysical Narrative*. University Park: Pennsylvania State University Press.

- Andonian, Cathleen Culotta, ed. 1998. *The Critical Response to Samuel Beckett*. Critical Responses in Arts and Letters no. 30. Westport CT: Greenwood Press.
- Anspaugh, Kelly. 1996. "‘Faith, Hope, and—What Was It?’: Beckett Reading Joyce Reading Dante." *Journal of Beckett Studies*, n.s., 5 (1–2): 19–38.
- Aquinas, Thomas, Saint. 1964. *Christian Theology (Ia. I)*. Volume 1 of *Summa Theologiae*. 60 vols. Cambridge: Blackfriars.
- Argyros, Alex. 1991. *A Blessed Rage for Order*. Studies in Literature and Science. Ann Arbor: University of Michigan Press.
- Aristophanes. 1962. *Four Comedies*. Edited by Dudley Fitts. San Diego: Harcourt Brace Jovanovich.
- Armstrong, Gordon. 1993. "Cultural Politics and the Irish Theatre: Samuel Beckett and the New Biology." *Theatre Research International* 18 (3): 215–21 (autumn).
- Atanasijevic, Ksenija. 1923. *The Metaphysical and Geometrical Doctrine of Bruno As Given in His Work De Triplici Minimo*. Modern Concepts of Philosophy. Translated by George Vid Tomashevich. Reprint, Saint Louis, Missouri: Warren H. Green, 1972.
- Auster, Paul. 1990. *The New York Trilogy*. Penguin Books.
- Ayer, A. J., et al. 1979. *Perception and Identity: Essays Presented to A. J. Ayer, With His Replies*. Edited by Graham Macdonald. Cornell University Press.
- Baars, Donald. 1983. *The Colorado Plateau: A Geologic History*. University of New Mexico.
- Bair, Deirdre. 1990. *Samuel Beckett: A Biography*. New York: Summit Books. First published in 1978 by Harcourt Brace Jovanovich (New York) and Jonathan Cape, but this edition does not appear, technically, to be a reprint.
- Baker, Phil. 1997. *Beckett and the Mythology of Psychoanalysis*. New York: St. Martin's Press.
- Barale, Michèle Aina, and Rubin Rabinovitz, eds. 1988. *A KWIC Concordance to Samuel Beckett's Trilogy: Molloy, Malone Dies, and The Unnamable*. 2 vols. Volume 753 of *Garland Reference Library of the Humanities*. New York: Garland Publishing.
- , eds. 1990. *A KWIC Concordance to Samuel Beckett's Murphy*. Volume 1079 of *Garland Reference Library of the Humanities*. New York: Garland Publishing.
- Bate, Walter Jackson, ed. 1970. *Criticism: The Major Texts*. Enl. ed. San Diego: Harcourt Brace Jovanovich.
- Beckett, Samuel. 1955–58. *Three Novels*. New York: Grove Press.
- . 1931. *Proust*. Reprint, Grove Press, 1957.
- . c. 1934. "Echo's Bones." Typescript story in the Special Collections of Dartmouth College Library, Hanover, New Hampshire. 28 pages.
- . 1937. "Human Wishes." In Beckett 1984c, 155–66.
- . 1949. "Three Dialogues with George Duthuit." In Beckett 1984c, 138–45.

- . 1953. *Watt*. Paris: Olympia Press. Reprint, New York: Grove Press, 1959.
- . 1954. *Waiting for Godot*. First Evergreen ed. Translated from the French by the author. New York: Grove Press. Reprint, New York: Grove Press, 1956. Composed in 1948. First published as *En attendant Godot* in 1952. Premiered in French in 1953, in English in 1955.
- . 1955. *Molloy*. Translated by Patrick Bowles and Samuel Beckett. New York: Grove Press.
- . 1956a, 7 April. Letter to Barney Rosset of Grove Press in the Special Collections of Syracuse University Library, Syracuse, New York.
- . 1956b. *Malone Dies*. New York: Grove Press.
- . 1956c. “Yellow.” In *New World Writing*, Volume 10 of *New American Library Mentor Books*, 108–19. New York: New American Library. Also in Beckett 1972, 158–74, with minor differences.
- . 1957. *Murphy*. New York: Grove Press. First published in 1938.
- . 1958a. *Endgame*. New York: Grove Press.
- . 1958b. *Mexican Poetry: An Anthology*. Edited by Octavio Paz. Bloomington: Indiana University Press. Reprint, New York: Grove, 1985.
- . 1958c. *Stories and Texts for Nothing*. Reprint, New York: Grove Press, 1967.
- . 1958d. *The Unnamable*. New York: Grove Press.
- . 1964. *How It Is*. Translated from the French by the author. New York: Grove Press. First published as *Comment c’est* in Paris: Les Editions de Minuit, 1961.
- . 1972. *More Pricks Than Kicks*. New York: Grove Press. First published by Chatto and Windus, 1934.
- . 1974a. *First Love and Other Shorts*. New York: Grove Press.
- . 1974b. *Mercier and Camier*. New York: Grove Press.
- . 1976. *Fizzles*. New York: Grove Press.
- . 1977. *Collected Poems in English and French*. New York: Grove Press.
- . 1980. *Company*. New York: Grove Press.
- . 1981. *Ill Seen Ill Said*. New York: Grove Press.
- . 1983a. “Letter [of 22 April 1958] from Samuel Beckett concerning manuscript of story ‘Killachter Meadow.’” *Review of Contemporary Fiction* 3 (1): 156–57.
- . 1983b. *Nohow On*. Riverrun Press.
- . 1983c. *A Samuel Beckett Reader*. Edited by John Calder. London: Pan Books.
- . 1983d. *Worstward Ho*. New York: Grove Press.
- . 1984a. “All That Fall.” In Beckett 1984b, 9–41.
- . 1984b. *Collected Shorter Plays*. New York: Grove Press.

- . 1984c. *Disjecta: Miscellaneous Writings and a Dramatic Fragment*. Edited by Ruby Cohn. New York: Grove Press.
- . 1984d. “Krapp’s Last Tape.” In Beckett 1984b, 53–63.
- . 1984e. “That Time.” In Beckett 1984b, 225–35.
- . 1984f. *Three Plays: Ohio Impromptu, Catastrophe, What Where*. New York: Grove Press.
- . 1986. *Happy Days: The Production Notebook of Samuel Beckett*. Edited by James Knowlson. New York: Grove Press. First published in London: Faber and Faber, 1985.
- . 1987. *As the Story Was Told*. Edited by Christopher B. Ricks. Cambridge, England: Rampant Lions Press.
- . 1988. *Stirrings Still*. Illustrated by Louis le Brocqy. Blue Moon Books. Reprint, New York: North Star Line, 1991.
- . 1990. *As the Story Was Told: Uncollected and Late Prose*. New York: Riverrun Press.
- . 1992a. *Endgame: With a Revised Text*. Volume 2 of *The Theatrical Notebooks of Samuel Beckett*. Edited by S. E. Gontarski. London: Faber and Faber.
- . 1992b. *Krapp’s Last Tape: With a Revised Text*. Volume 3 of *The Theatrical Notebooks of Samuel Beckett*. Edited by James Knowlson. New York: Grove Press.
- . 1993a. *Dream of Fair to middling Women*. Edited by Eoin O’Brien and Edith Fournier. New York: Arcade Publishing in association with Riverrun Press. Composed in 1932.
- . 1993b. *Samuel Beckett’s Company/Compagnie and A Piece of Monologue/Solo: A Bilingual Variorum Edition*. Volume 1400 of *Garland Reference Library of the Humanities*. Edited by Charles Krance. New York: Garland Publishing.
- . 1994. *Waiting for Godot: With a Revised Text*. Volume 1 of *The Theatrical Notebooks of Samuel Beckett*. Edited by Dougald McMillan and James Knowlson. New York: Grove Press. First published in Great Britain: Faber and Faber, 1993.
- . 1995a. *Eleuthéria: A Play in Three Acts*. Translated from the French by Michael Brodsky. New York: Foxrock.
- . 1995b. “Ping.” In Beckett 1995c, 193–96.
- . 1995c. *Samuel Beckett: The Complete Short Prose, 1929–1989*. Edited by S. E. Gontarski. New York: Grove Press.
- . 1996. *Samuel Beckett’s Mal vu mal dit/Ill Seen Ill Said: A Bilingual, Evolutionary, and Synoptic Variorum Edition*. Volume 1266 of *Garland Reference Library of the Humanities*. Edited by Charles Krance. New York: Garland Publishing.
- . 1997. *Waiting for Godot*. New York: Grove Press.
- . 1999a. *Beckett’s Dream Notebook*. Edited by John Pilling. Reading, England: Beckett International Foundation.

- . 1999b. *The Shorter Plays: With Revised Texts*. Volume 4 of *The Theatrical Notebooks of Samuel Beckett*. Edited by S. E. Gontarski. New York: Grove Press. First published in London: Faber and Faber, 1999.
- . 2000. *Beckett in Black and Red: The Translations for Nancy Cunard's Negro (1934)*. Edited by Alan Warren Friedman. Lexington: University Press of Kentucky.
- Beckett, Samuel, and Alan Schneider. 1998. *No Author Better Served: The Correspondence of Samuel Beckett and Alan Schneider*. Edited by Maurice Harmon. Cambridge: Harvard University Press.
- Beer, Ann. 1985. "Watt, Knott, and Beckett's Bilingualism." *Journal of Beckett Studies*, no. 10:37–75.
- Beja, Morris, S. E. Gontarski, and Pierre Astier, eds. 1983. *Samuel Beckett: Humanistic Perspectives*. Columbus: Ohio State University Press.
- Benét, William Rose. 1965. *The Reader's Encyclopedia*. 2d ed. New York: Thomas Y. Crowell.
- Benson, Michael. 1984. "Moving Bodies in Hardy and Beckett." *Essays in Criticism* 34 (3): 229–43 (July).
- Ben-Zvi, Linda. 1984. "Fritz Mauthner for Company." *Journal of Beckett Studies*, no. 9:65–88.
- Bergin, Thomas Goddard, and Max Harold Fisch. 1970. *The New Science of Giambattista Vico*. Cornell University Press.
- Blake, William. 1966. *Blake's Job: William Blake's Illustrations of the Book of Job*. Edited by S. Foster Damon. University Press of New England.
- Blisset, William. 1989. "The Syntax of Violence." In Matthias 1989, 193–208.
- Bloom, Harold. 1973. *The Anxiety of Influence: A Theory of Poetry*. New York: Oxford University Press.
- . 1985a. "Introduction." In Bloom 1985b, 1–5.
- , ed. 1985b. *Samuel Beckett*. Modern Critical Views. New York: Chelsea House Publishers.
- . 1988a. "Introduction." In Bloom 1988b, 1–12.
- , ed. 1988b. *Samuel Beckett's* Molloy, Malone Dies, The Unnamable. Modern Critical Interpretations. New York: Chelsea House Publishers.
- Boden, Margaret A., ed. 1990. *The Philosophy of Artificial Intelligence*. Oxford University Press.
- Bomberg, David. 1988. *David Bomberg*. London: Tate Gallery. For the exhibition of 17 Feb to 8 May 1988.
- Bonnerot, Louis. 1973–1974. "David Jones and the Notion of Fragments." *Agenda* 11 (4)–12 (1):76–89.
- Bonola, Roberto. 1912. *Non-Euclidean Geometry: A Critical and Historical Study of its Development*. Translated by H. S. Carslaw. Chicago: Open Court Publishing. Authorized translation.
- Borges, Jorge Luis. 1963. *Ficciones*. Edited by Anthony Kerrigan. Translated from the Spanish by the editor et al. New York: Grove Weidenfeld. First published in Buenos Aires: Emecé Editores, 1956.

- Boulger, James D. 1980. *The Calvinist Temper in English Poetry*. The Hague: Mouton Publishers.
- Brater, Enoch. 1983a. "The *Company* Beckett Keep: The Shape of Memory and One Fabulist's Decay of Lying." In Beja, Gontarski, and Astier 1983, 157–71.
- . 1983b. "Mis-Takes, Mathematical and Otherwise, in *The Lost Ones*." *Modern Fiction Studies* 29 (1): 93–109 (spring).
- , ed. 1986. *Beckett at 80/Beckett in Context*. Oxford: Oxford University Press.
- . 1989. *Why Beckett*. New York: Thames and Hudson.
- Breuer, Rolf. 1993. "Paradox in Beckett." *Modern Language Review* 88 (July): 559–80.
- Britannica, Encyclopaedia. 1993. *Encyclopaedia Britannica*. 15th ed. Chicago: University of Chicago.
- Brooke, Rupert. 1968. *The Letters of Rupert Brooke*. Edited by Geoffrey Keynes. New York: Harcourt, Brace and World.
- Bruno, Giordano. 1950. "Concerning the Cause, Principle, and One." In *The Infinite in Giordano Bruno, With a Translation of His Dialogue Concerning the Cause, Principle, and One*. Translated by Sidney Greenburg. New York: King's Crown Press.
- Bryden, Mary. 1992. "Figures of Golgotha: Beckett's Pinioned People." In Pilling and Bryden 1992, 45–62.
- . 1995. "Beckett and the Three Dantean Smiles." *Journal of Beckett Studies*, n.s., 4 (2): 29–33.
- . 1998. *Samuel Beckett and the Idea of God*. New York: St. Martin's Press.
- . 1999. "The Carved Rats of Saint-Sernin." *The Beckett Circle: Newsletter of the Samuel Beckett Society* 21 (2): 9 (fall).
- Bulfinch, Thomas. 1979. *Bulfinch's Mythology*. New York: Gramercy Books.
- Buning, Marius. 1990. "Samuel Beckett's Negative Way: Intimations of the *Via Negativa* in his Late Plays." In Jasper and Crowder 1990, Chapter 9, 129–42.
- Burnet, John. 1964. *Greek Philosophy: Thales to Plato*. 1st ed., reset and reprinted. New York: St. Martin's Press. First published in 1914.
- Burrows, Rachel. 1989. "Interview with Rachel Burrows, Dublin, Bloomsday, 1982." *Journal of Beckett Studies*, no. 11–12:6–15. Interviewed by S. E. Gontarski, Martha Feshenfeld, and Dougald McMillan.
- Butler, Lance St John, ed. 1993. *Critical Essays on Samuel Beckett*. Critical Thought Series no. 4. Hants, England: Scolar Press.
- . 1999. "Review of *Samuel Beckett and the Idea of God* by Mary Bryden (New York: St. Martin's, 1998)." *The Beckett Circle: Newsletter of the Samuel Beckett Society* 21 (2): 10–11 (Fall).
- Calder, John, ed. 1967. *Beckett at 60: A Festschrift*. London: Calder and Boyars.
- . 1979. "Review of *Samuel Beckett: A Biography* by Deirdre Bair (Jonathan Cape, 1978)." *Journal of Beckett Studies*, no. 4:74–79.

- . 1983. "Introduction." In Beckett 1983c, 9–42.
- Campbell, Joseph. 1983. *Historical Atlas of World Mythology*. London: Summerfield Press.
- Carey, Phyllis. 1992. "Stephen Dedalus, Belacqua Shuah, and Dante's *Pietà*." In Carey and Jewinski 1992b, Chapter 8, 104–16.
- Carey, Phyllis, and Ed Jewinski. 1992a. "Introduction." In Carey and Jewinski 1992b, xi–xviii.
- , eds. 1992b. *Re: Joyce'n Beckett*. New York: Fordham University Press.
- Carnap, Rudolf. 1966. *Philosophical Foundations of Physics*. Edited by Martin Gardner. Basic Books.
- Carroll, John S. 1906. *Prisoners of Hope: an Exposition of Dante's Purgatorio*. London: Hodder and Stoughton.
- Carroll, Lewis. n.d. *The Complete Works of Lewis Carroll*. Random House.
- Cassedy, Steven. 1988. "Mathematics, Relationism, and the Rise of Modern Literary Aesthetics." *Journal of the History of Ideas* 49 (1): 109–32.
- Castillo, Debra A. 1982. "Beckett's Metaphorical Towns." *Modern Fiction Studies* 28 (2): 189–200 (summer).
- Cheng, Vincent J. 1987. "Stephen Dedalus and the Black Panther Vampire." *James Joyce Quarterly* 24 (2): 161–76 (winter).
- Coe, Richard N. 1983. "Beckett's English." In Beja, Gontarski, and Astier 1983, 36–57.
- Coetzee, J. M. 1972. "The Manuscript Revisions of Beckett's *Watt*." *Journal of Modern Literature* 2:472–80.
- Cohen, Joseph. 1975. *Journey to the Trenches: The Life of Isaac Rosenberg 1890–1918*. New York: Basic Books.
- Cohn, Ruby. 1970. "The Laughter of Sad Sam Beckett." In Friedman 1970, 185–97.
- , ed. 1975. *Samuel Beckett: A Collection of Criticism*. New York: McGraw-Hill.
- . 1980. *Just Play: Beckett's Theater*. Princeton: Princeton University Press.
- Common Prayer. 1789. *The Book of Common Prayer and Administration of the Sacraments and Other Rites and Ceremonies of the Church*. New York: Oxford University Press. "This edition . . . was . . . reproduced from a certified edition . . . as adopted by the General Convention of 1928 and emended by subsequent Conventions."
- Conley, Tom. 1985. "Samuel Beckett: Color, Letter, and Line." *Visible Language* 19 (4): 484–98 (autumn).
- Connor, Steven. 1982. "Beckett's Animals." *Journal of Beckett Studies*, no. 8:29–44.
- Cook, Theodore Andrea. 1914. *The Curves of Life: Being an Account of Spiral Formations and Their Application to Growth in Nature, to Science and to Art; with Special reference To the Manuscripts of Leonardo da Vinci*. Reprint, New York: Dover Publications, 1979.

- Copleston, Frederick. 1946. *Greece and Rome*. Volume 1 of *A History of Philosophy*. 9 vols. in 3 books. Newman Press. Reprint, New York: Image Books, 1985.
- . 1950a. *Augustine to Scotus*. Volume 2 of *A History of Philosophy*. 9 vols. in 3 books. Newman Press. Reprint, New York: Image Books, 1985.
- . 1950b. “The Pseudo-Dionysius.” In Copleston 1950a, Chapter 9.
- . 1953a. “Nicholas of Cusa.” In Copleston 1953b, Chapter 15.
- . 1953b. *Ockham to Suarez*. Volume 3 of *A History of Philosophy*. 9 vols. in 3 books. Newman Press. Reprint, New York: Image Books, 1985.
- . 1959. *Hobbes to Hume*. Volume 5 of *A History of Philosophy*. 9 vols. in 3 books. Newman Press. Reprint, New York: Image Books, 1985.
- . 1960a. *Descartes to Leibniz*. Volume 4 of *A History of Philosophy*. 9 vols. in 3 books. Newman Press. Reprint, New York: Image Books, 1985.
- . 1960b. *Wolff to Kant*. Volume 6 of *A History of Philosophy*. 9 vols. in 3 books. Newman Press. Reprint, New York: Image Books, 1985.
- . 1963a. *Fichte to Nietzsche*. Volume 7 of *A History of Philosophy*. 9 vols. in 3 books. Newman Press. Reprint, New York: Image Books, 1985.
- . 1963b. “Schopenhauer.” In Copleston 1963a, Chapters 13–14.
- . 1966. *Bentham to Russell*. Volume 8 of *A History of Philosophy*. 9 vols. in 3 books. Newman Press. Reprint, New York: Image Books, 1985.
- . 1974a. “August Comte.” In Copleston 1974c, Chapter 5.
- . 1974b. “Henri Bergson.” In Copleston 1974c, Chapters 9–10.
- . 1974c. *Maine de Biran to Sartre*. Volume 9 of *A History of Philosophy*. 9 vols. in 3 books. Newman Press. Reprint, New York: Image Books, 1985.
- Cork, Richard. 1988. “Bomberg’s Odyssey.” In Bomberg 1988. For the exhibition of 17 Feb to 8 May 1988.
- Cousineau, Thomas J. 1979. “Watt: Language as Interdiction and Consolation.” *Journal of Beckett Studies*, no. 4:1–13.
- Crane, Gregory R., ed. 2000, March. *The Perseus Project*. <http://www.perseus.tufts.edu>.
- Cronin, Anthony. 1996. *Samuel Beckett: The Last Modernist*. London: Harper-Collins.
- Culik, Hugh. 1983. “The Place of *Watt* in Beckett’s Development.” *Modern Fiction Studies* 29 (1): 57–71 (spring).
- . 1993a. “Mathematics as Metaphor: Samuel Beckett and the Esthetics of Incompleteness.” *Papers on Language & Literature* 29 (2): 131–51 (spring).
- . 1993b. “Neurological Disorder and the Evolution of Beckett’s Maternal Images.” In Butler 1993, 366–373.
- Dakers, Caroline. 1987. *The Countryside at War 1914–1918*. London: Constable.
- Dallin, Leon, and Lynn Dallin. 1967. *Folk Songster*. Dubuque: Wm. C. Brown.
- Davidson, Gustav. 1967. *A Dictionary of Angels Including the Fallen Angels*. New York: Free Press.

- Davies, Paul. 1981. "Is Thermodynamic Gravity a Route to Quantum Gravity?" In Isham, Penrose, and Sciama 1981.
- , ed. 1989. *The New Physics*. Cambridge: Cambridge University Press.
- . 1994. *The Ideal Real: Beckett's Fiction and Imagination*. Associated University Presses.
- Day, Robert Adams. 1980. "How Stephen Wrote His Vampire Poem." *James Joyce Quarterly* 17 (2): 183–98 (winter).
- Dearlove, J. E. 1977. "'Last Images': Samuel Beckett's Residual Fiction." *Journal of Modern Literature* 6 (1): 104–126 (February).
- Dearlove, Judith E. 1983. "'Syntax Upended in Opposite Corners': Alterations in Beckett's Linguistic Theories." In Beja, Gontarski, and Astier 1983, 122–28.
- Doherty, Francis. 1990. "Visions of Hell: Lowry and Beckett." In Jasper and Crowder 1990, Chapter 8, 117–28.
- Donne, John. 1980. *Paradoxes and Problems*. Edited by Helen Peters. Oxford: Clarendon Press.
- Downes, Rackstraw. 1996. "Theater for the Free Mind and the Strong Stomach." *New York Times*, 28 July, H5.
- Drake, Stillman. 1973. *Copernicus—Philosophy and Science: Bruno, Kepler, Galileo*. Norwalk, Connecticut: Burndy Library.
- Driver, Tom F. 1961. "Beckett by the Madeleine." *Columbia University Forum* 4 (3): 21–25 (summer). Note: Driver "reconstructs" Beckett's words "from notes made immediately after" their conversation (p. 22).
- Dukes, Gerry. 1996. *The Beckett Festival: Lincoln Center Festival 1996*. Gate Theater. Program for a festival of theater performances by the (Irish) Gate Theater company at the Lincoln Center in New York. Dukes wrote the notes for each play.
- Eade, J. C. 1981. "The Seventh Scarf: A Note on *Murphy*." *Journal of Beckett Studies*, no. 7:115–17.
- Edson, Russell. 1973. *The Clam Theater*. Volume 64 of *Wesleyan Poetry Program*. Middletown: Wesleyan University Press.
- Eiseley, Loren. 1979. *The Star Thrower*. San Diego: Harvest Books.
- Elam, Keir. 1986. "*Not I*: Beckett's Mouth and the Ars(e) Rhetorica." In Brater 1986, 124–48.
- Eliot, George. 1984. *Middlemarch*. New York: Random House.
- Eliot, T. S. 1980. *The Complete Poems and Plays 1909–1950*. New York: Harcourt Brace Jovanovich.
- Ellis, Reuben J. 1989. "'Matrix of Surds': Heisenberg's Algebra in Beckett's *Murphy*." *Papers on Language & Literature* 25 (1): 120–23 (winter).
- Ellis, Willis D. 1950. *A Source Book of Gestalt Psychology*. New York: Humanities Press.
- Ell Mann, Richard. 1982. *James Joyce*. New and Rev. ed. New York: Oxford University Press. First published in 1959. THIS IS A TEST ENTRY ellmantest2.

- Ellmann, Richard. 1982a. *James Joyce*. New and Rev. ed. New York: Oxford University Press. First published in 1959.
- Ellmann, Richard, Robert O'Clair, et al., eds. 1980. *Norton Anthology of Modern Poetry*. 2d ed. New York: W. W. Norton and Co. THIS IS A TEST ENTRY norton:modern:test.
- , eds. 1988. *Norton Anthology of Modern Poetry*. 2d ed. New York: W. W. Norton and Co.
- Ellmann, Romulus. 1980. *James Joyce*. New and Rev. ed. New York: Oxford University Press. First published in 1959. THIS IS A TEST ENTRY ellmanntestr.
- Ell Mann, Romulus. 1980. *James Joyce*. New and Rev. ed. New York: Oxford University Press. First published in 1959. THIS IS A TEST ENTRY ellmanntestr2.
- Ellmann, Romulus. 1982b. *James Joyce*. New and Rev. ed. New York: Oxford University Press. First published in 1959. THIS IS A TEST ENTRY ellmanntestrx.
- . 1990. *James Joyce*. New and Rev. ed. New York: Oxford University Press. First published in 1959. THIS IS A TEST ENTRY ellmanntestrlate.
- Ellmanna, Richard. 1982. *James Joyce*. New and Rev. ed. New York: Oxford University Press. First published in 1959. THIS IS A TEST ENTRY ellmanntest1:joyce.
- Ell Manna, Richard. 1982. *James Joyce*. New and Rev. ed. New York: Oxford University Press. First published in 1959. THIS IS A TEST ENTRY ellmanntest3.
- Ellmanna, Romulus. 1980. *James Joyce*. New and Rev. ed. New York: Oxford University Press. First published in 1959. THIS IS A TEST ENTRY ellmanntestr1.
- Ell Manna, Romulus. 1980. *James Joyce*. New and Rev. ed. New York: Oxford University Press. First published in 1959. THIS IS A TEST ENTRY ellmanntestr3.
- Empson, William. 1947. *Seven Types of Ambiguity*. New York: New Directions.
- Esslin, Martin. 1986a. "Dionysos' Dianoetic Laugh." In John Calder (Publishers) 1986, 15–23.
- . 1986b. "Samuel Beckett—Infinity, Eternity." In Brater 1986, 110–23.
- Euclid. 1952. *The Thirteen Books of Euclid's Elements*. Volume 11 of *Great Books of the Western World*. Translated by Sir Thomas L. Heath. Chicago: Encyclopaedia Britannica.
- Farrow, Anthony. 1991. *Early Beckett: Art and Allusion in More Pricks Than Kicks and Murphy*. Troy, New York: Whitston Publishing.
- Federman, Raymond. 1965. *Journey to Chaos: Samuel Beckett's Early Fiction*. Berkeley: University of California Press.
- Federman, Raymond, and John Fletcher. 1970. *Samuel Beckett: His Works and His Critics; An Essay in Bibliography*. Berkeley: University of California Press.

- Fergusson, Francis. 1953. *Dante's Drama of the Mind: A Modern Reading of the Purgatorio*. Princeton University Press.
- Festugière, A. J. 1950. *La Révélation d'Hermès Trismégiste*. Paris. Cited in Yates 1964: page references are to Yates.
- Fletcher, John. 1967. *Samuel Beckett's Art*. London: Chatto and Windus.
- Flexner, Stuart Berg, et al., eds. 1987. *The Random House Dictionary of the English Language*. 2d ed. New York: Random House.
- Fowlie, Wallace. 1985. "Dante and Beckett." In *Dante Among the Moderns*, edited by Stuart Y. McDougal, 128–52. Chapel Hill and London: University of North Carolina Press.
- Frazer, James George. 1922. *The Golden Bough: A Study in Magic and Religion*. 1 vol. Abridged ed. Reprint, New York: Macmillan, 1948.
- Freud, Sigmund. 1924–50. *Miscellaneous Papers, 1888–1938*. Volume 5 of *Collected Papers*. Edited by James Strachey. New York: Basic Books in arrangement with Hogarth Press and the Institute for Psycho-Analysis, London. Authorized translation from the German under the supervision of Joan Riviere.
- . 1910. "The Antithetical Sense of Primal Words: A Review of a Pamphlet by Karl Abel, *Über den Gegensinn der Urworte*, 1884." In Freud 1959, Chapter 10, 184–91. Authorized translation from the German under the supervision of Joan Riviere.
- . 1915. "Thoughts for the Times on War and Death." In Freud 1959, Chapter 17, 288–317. Authorized translation from the German under the supervision of Joan Riviere.
- . 1919. "Psycho-analysis and War Neuroses." In Freud 50, Chapter 8, 83–87. Authorized translation from the German under the supervision of Joan Riviere.
- . 1920. "Beyond the Pleasure Principle." In Freud 1961b, 18:1–64.
- . 1925a. "Negation." In Freud 50, Chapter 16, 181–85. Authorized translation from the German under the supervision of Joan Riviere.
- . 1925b. "A Note upon the 'Mystic Writing-Pad.'" In Freud 50, Chapter 15, 175–80. Authorized translation from the German under the supervision of Joan Riviere.
- . 1932. "Why War?" In Freud 50, 273–87. Authorized translation from the German under the supervision of Joan Riviere.
- . 1959. *Papers on Metapsychology, Papers on Applied Psycho-Analysis*. Volume 4 of *Collected Papers*. New York: Basic Books in arrangement with Hogarth Press and the Institute for Psycho-Analysis, London. First published in 1925. Authorized translation from the German under the supervision of Joan Riviere.
- . 1961a. *Beyond the Pleasure Principle*. Edited by James Strachey. Translated from the German by James Strachey. New York: Liveright. Reprint, New York: W. W. Norton and Co., 1990. First published in 1920. On p. xxxvii: "The present translation is a corrected reprint of the *Standard Edition* version" (i.e., English translation of 1955).

- . 1961b. *The Standard Edition of the Complete Psychological Works of Sigmund Freud*. Edited by James Strachey. Translated by Joan Riviere. London: Hogarth Press and the Institute for Psycho-Analysis.
- . 1989a. *Civilization and Its Discontents*. Reprint of the Standard Edition. Translated by James Strachey. New York: W. W. Norton and Co.
- . 1989b. *The Ego and the Id*. Reprint of the Standard Edition. Edited by James Strachey. Translated by Joan Riviere. New York: W. W. Norton and Co.
- Friebert, Stuart, and David Young, eds. 1989. *The Longman Anthology of Contemporary American Poetry: 1950 to the Present*. 2d ed. Longman.
- Friedman, Melvin J., ed. 1970. *Samuel Beckett Now*. Chicago: University of Chicago Press.
- . 1995. "Samuel Beckett: Tradition and Innovation." *Contemporary Literature* 36 (2): 350–61 (summer). Review of *Wandering and Home* by Eyal Amiran, *The Beckett Studies Reader* by S. E. Gontarski, *Innovation in Samuel Beckett's Fiction* by Rubin Rabinovitz, and *Beckett's Dying Words* by Christopher Ricks.
- Frye, Northrop. 1951. "The Archetypes of Literature." In Bate 1970, 601–9.
- . 1957. "Anatomy of Criticism." In Bate 1970, 609–25.
- . 1993. "The Nightmare Life in Death." In Butler 1993, 101–108.
- Gardner, Edmund G. 1913. *Dante and the Mystics: A Study of the Mystical Aspect of the Divina Commedia and its Relations With Some of its Mediaeval Sources*. Reprint, New York: Haskell House Publishers, 1968.
- Gardner, Martin. 1961. *The Scientific American Book of Mathematical Puzzles & Diversions*. 2d ed. New York: Simon and Schuster.
- . 1979a. "Cyclic Numbers." In Gardner 1979c, Chapter 10, 111–22.
- . 1979b. "Cyclic Numbers." In Gardner 1979c, Chapter 14, 169–181.
- . 1979c. *Mathematical Circus*. New York: Alfred A. Knopf.
- , ed. 1994. *Great Essays in Science*. Buffalo: Prometheus Books.
- . 1997. *The Night is Large: Collected Essays, 1938–1995*. New York: St. Martin's Griffin.
- Garner, Jr., Stanton B. 1993. "'Still living flesh': Beckett, Merleau-Ponty, and the Phenomenological Body." *Theatre Journal* 45:443–60.
- Gascoigne, George. 1907. *The Posies*. Volume 1 of *The Complete Works of George Gascoigne*. 2 vols. Edited by John W. Cunliffe. Grosse Pointe, Michigan: Scholarly Press. Reprint, Cambridge: Cambridge University Press, 1969.
- Gates, David. 1996. "He Couldn't Go On, He Went On." *New York Times Book Review*, 26 May, 4.
- Gatti, Hilary. 1989. *The Renaissance Drama of Knowledge*. London: Routledge.
- Geerling, Paul. 1981. *Down the Grand Staircase*. Westwater.
- Geroch, Robert. 1978. *General Relativity From A to B*. Chicago: University of Chicago Press.

- Gibaldi, Joseph. 1998. *MLA Style Manual and Guide to Scholarly Publishing*. 2d ed. New York: Modern Language Association of America.
- Gierow, Karl Ragnar. 1971. "Presentation Address [for Beckett's Nobel Prize]." *Samuel Beckett, Björnstjerne Björnson, Pearl Buck [and] Ivan Bunin*, Nobel Prize Library. New York: A. Gregory, 3–6. Author is permanent Secretary of the Swedish Academy.
- Gifford, Don, and Robert J. Seidman. 1988. *Ulysses Annotated*. Berkeley: University of California Press.
- Gleitman, Henry. 1986. *Psychology*. 2d ed. New York: W. W. Norton and Co.
- Glover, Jon, and Jon Silkin, eds. 1989. *The Penguin Book of First World War Prose*. Penguin Books.
- Gluck, Barbara Reich. 1979. *Beckett and Joyce: Friendship and Fiction*. Lewisburg: Bucknell University Press.
- Gobar, Ash. 1968. *Philosophic Foundations of Genetic Psychology and Gestalt Psychology: A Comparative Study of the Empirical Basis, Theoretical Structure, and Epistemological Groundwork of European Biological Psychology*. The Hague: Maritnus Nihjogg.
- Godfrey, Tony. 1998. *Conceptual Art*. Art & Ideas. London: Phaidon Press.
- Gontarski, S. E. 1984. "Quad I & II: Beckett's Sinister Mime(s)." *Journal of Beckett Studies*, no. 9:137–38.
- . 1985a. "The Intent of Undoing." In Gontarski 1985b, 1–21.
- , ed. 1985b. *The Intent of Undoing in Samuel Beckett's Dramatic Texts*. Bloomington: Indiana University Press.
- , ed. 1986. *On Beckett: Essays and Criticism*. New York: Grove Press.
- , ed. 1993. *Beckett Studies Reader*. Gainesville: University Press of Florida.
- . 1995a. "Editing Beckett." *Twentieth Century Literature* 41 (2): 190–207 (summer).
- . 1995b. "From Unabandoned Works: Samuel Beckett's Short Prose." In Beckett 1995c, xi–xxxii.
- Gordon, John. 1978. "Notes in Response to Michael Seidel's *Ulysses' Black Panther Vampire*." *James Joyce Quarterly* 15 (3): 229–35 (spring).
- . 1990. "Haines and the Black Panther." *James Joyce Quarterly* 27 (3): 587–94 (spring).
- Gordon, Lois. 1996. *The World of Samuel Beckett, 1906–1946*. New Haven: Yale University Press.
- Gose, Jr., Eliot B. 1980. *The Transformation Process in Joyce's Ulysses*. Toronto: University of Toronto Press.
- Gove, Philip Babcock, et al., eds. 1993. *Webster's Third New International Dictionary of the English Language, Unabridged: A Merriam-Webster*. Springfield, Massachusetts: Merriam-Webster.
- Grandin, Temple, and Margaret M. Scariano. 1993. *Emergence: Labelled Autistic*. Novato, California: Arena Press.

- Grant, Edward. 1981. *Much Ado About Nothing: Theories of Space and Vacuum from the Middle Ages to the Scientific Revolution*. Cambridge: Cambridge University Press.
- Graver, Lawrence, and Raymond Federman, eds. 1979. *Samuel Beckett: The Critical Heritage*. London: Routledge and Kegan Paul.
- Green, David D. 1996. "Beckett's *Dream*: More Niente than Bel." *Journal of Beckett Studies*, n.s., 5 (1-2): 67-80.
- Green, David [D.]. 1994. "A Note on Augustine's Thieves." *Journal of Beckett Studies*, n.s., 3 (2): 77-78.
- Greenberg, Valerie D. 1990. *Transgressive Readings: The Texts of Franz Kafka and Max Planck*. Ann Arbor: University of Michigan Press.
- Greene, Robert. n.d. [1881-86]. "The Repentance of Robert Greene." In *The Life and Complete Works in Prose and Verse of Robert Greene*, edited by Alexander B. Grosart, Huth Library, 15 vols., 12:151-88. London and Aylesbury: printed for private circulation. Reprint, New York: Russell and Russell, 1964.
- Gregory, Richard L., ed. 1987. *The Oxford Companion to the Mind*. Oxford: Oxford University Press.
- Hague, Rene, ed. 1980. *Dai Greatcoat: A Self-portrait of David Jones in his letters*. London: Faber and Faber.
- Halliwell-Phillipps, James Orchard, ed. 1969. *The Nursery Rhymes of England, Obtained Principally from Oral Tradition*. 3d ed. with additions. Detroit: Singing Tree Press. First printed in London; reprinted Boston, Munroe and Francis, 1843.
- Hallyn, Fernand. 1990. *The Poetic Structure of the World: Copernicus and Kepler*. Translated by Donald M. Leslie. New York: Zone Books. Distributed by MIT Press, Cambridge, Massachusetts.
- Hamilton, Alice, and Kenneth Hamilton. 1976. *Condemned to Life: The World of Samuel Beckett*. William B Eerdmans.
- Hammond, B. S. 1979. "Beckett and Pinter: Towards a Grammar of the Absurd." *Journal of Beckett Studies*, no. 4:35-42.
- Hardy, Thomas. 1924. *The Dynasts: An Epic Drama of the War with Napoleon*. Reprint, Macmillan and Co., 1954.
- . 1976. *The Complete Poems of Thomas Hardy*. Edited by James Gibson. London: Macmillan Publishing.
- . 1982. *The Complete Poetical Works of Thomas Hardy*. Edited by Samuel Lynn Hynes. New York: Oxford University Press.
- Harper, George Mills. 1961. *The Neoplatonism of William Blake*. Chapel Hill: University of North Carolina Press.
- . 1992. "Review of *The Irish Beckett* by John P. Harrington (Syracuse: Syracuse University Press, 1991)." *Journal of Beckett Studies*, n.s., 2 (1): 131-34.
- Harrington, John P. 1982. "Pynchon, Beckett, and Entropy: Uses of Metaphor." *Missouri Review* 5 (3): 129-38 (summer).

- . 1991. *The Irish Beckett*. Syracuse: Syracuse University Press.
- . 1992. "A Note on *Malone Dies* and Local Phenomena." *Journal of Beckett Studies*, n.s., 1 (1–2): 141–43.
- Harrison, Robert. 1968. *Samuel Beckett's Murphy*. University of Georgia Monographs no. 15. Athens: University of Georgia Press.
- Harvey, Lawrence E. 1970. *Samuel Beckett: Poet and Critic*. Princeton: Princeton University Press.
- Hay, Eloise Knapp. 1982. *T. S. Eliot's Negative Way*. Cambridge: Harvard University Press.
- Hayden, Robert Earl. 1985. *Collected Poems*. Edited by Frederick Glaysher. New York: Liveright Publishing.
- Heisenberg, Werner. 1958. *Physics and Philosophy: The Revolution in Modern Science*. Volume 19 of *World Perspective Series*. Reprint, New York: Harper and Row, 1962.
- Henderson, Linda Dalrympe. 1983. *The Fourth Dimension and Non-Euclidean Geometry in Modern Art*. Princeton: Princeton University Press.
- Heninger, S. K. 1974. *Touches of Sweet Harmony: Pythagorean Cosmology and Renaissance Poetics*. San Marino: Huntington Library.
- . 1989. *Sidney and Spenser: The Poet As Maker*. University Park PA: Pennsylvania State University Press.
- Henning, Sylvie Debevec. 1985. "The Guffaw of the Abderite: *Murphy* and the Democritean Universe." *Journal of Beckett Studies*, no. 10:5–20.
- Henschen, Folke. 1966. *The Human Skull: A Cultural History*. London: Thames and Hudson.
- Heraclitus. 1970. *The Cosmic Fragments*. Edited by G. S. Kirk. Cambridge: Cambridge University Press.
- Hibberd, Dominic, and John Onions, eds. 1986. *Poetry of the Great War: An Anthology*. New York: St. Martin's Press.
- Hill, Geoffrey. 1984. *The Lords of Limit: Essays on Literature and Ideas*. London: Andre Deutsch.
- . 1985. *Collected Poems*. Reprint, London: Andre Deutsch, 1986.
- . 1989. "A Pharisee to Pharisees: Reflections on Vaughan's 'The Night.'" *English* 38 (summer): 97–113.
- Hills, Paul. 1981. "The Art of David Jones." In Jones 1981b. Exhibition catalog.
- Hobson, Harold. 1956. "Samuel Beckett, Dramatist of the Year." *International Theater Annual*, no. 1:153–55.
- Holman, C. Hugh, and William Harmon. 1986. *A Handbook to Literature*. 5th ed. New York: Macmillan. Based on the original edition by William Flint Thrall and Addison Hibbard.
- Homer. 1963. *The Odyssey*. First Vintage Classics ed. Translated by Robert Fitzgerald. Illustrated by Jackie Schuman. Reprint, New York: Random House, 1990. Text as corrected and reset in 1961.

- Hopkins, Gerard Manley. 1953. *Poems and Prose*. Edited by W. H. Gardner. PenGuin Books.
- Horowitz, Irving Louis. 1952. *The Renaissance Philosophy of Giordano Bruno*. New York: Coleman-Ross.
- Housman, A. E. 1896. *A Shropshire Lad*. Reprint, Waterville, Maine: Colby College Library, 1946.
- . 1922. *Last Poems*. New York: Henry Holt and Co.
- Hume, Anthea. 1984. *Edmund Spenser: Protestant Poet*. Cambridge: Cambridge University Press.
- Iser, Wolfgang. 1985. "The Pattern of Negativity in Beckett's Prose." In Bloom 1985b, 125–36.
- Isham, C. J., R. Penrose, and D. W. Sciama, eds. 1981. *Quantum Gravity 2: A Second Oxford Symposium*. Oxford: Clarendon Press.
- Israel, Calvin. 1979. "Review of *Samuel Beckett: A Biography* by Deirdre Bair (New York: Harcourt Brace Jovanovich, 1978)." *Journal of Beckett Studies*, no. 4:80–85.
- Jacobus, Mary, Evelyn Fox Keller, and Sally Shuttleworth, eds. 1990. *Body/politics: Women and the Discourses of Science*. New York: Routledge.
- James, William. 1890. *The Principles of Psychology*. 2 vols. New York: Henry Holt and Co. Reprint, New York: Dover Publications, 1950.
- Jasper, David, and Colin Crowder, eds. 1990. *European Literature and Theology in the Twentieth Century: Ends of Time*. New York: St. Martin's Press.
- Jewinski, Ed. 1992. "James Joyce and Samuel Beckett: From Epiphany to Anti-Epiphany." In Carey and Jewinski 1992b, Chapter 11, 160–74.
- Joachim, H. H. 1951. *Aristotle: The Nicomachean Ethics*. Edited by D. A. Rees. Oxford: Clarendon Press.
- John Calder (Publishers). 1986. *As No Other Dare Fail: For Samuel Beckett on his 80th Birthday*. London: John Calder.
- Johnson, Mark. 1987. *The Body in the Mind: The Bodily Basis of Meaning, Imagination, and Reason*. Chicago: University of Chicago Press.
- Jolas, Eugene, ed. 1949. *Transition Workshop*. New York: Vanguard Press.
- Jones, Anthony. 1981a. "The French Murphy: From 'rare bird' to 'cancre.'" *Journal of Beckett Studies*, no. 6:37–50.
- Jones, David. 1937. *In Parenthesis: seinnyessit e gledyf ym penn maeu*. Reprint, London: Faber and Faber, 1963. Composed in 1932.
- . 1959. *Epoch and Artist*. New York: Chilmark Press (distributed by Random House).
- . 1974. *The Sleeping Lord and Other Fragments*. London: Faber and Faber.
- . 1993. "An Unpublished Appreciation of Gerard Manley Hopkins." *Agenda* 31 (3): 72–80. Edited by Kathleen Henderson Staudt.
- Jones, David Michael. 1981b. *David Jones*. London: Tate Gallery. Exhibition catalog.

- Joyce, James. 1939. *Finnegans Wake*. New York: PenGuin Books.
- . 1959a. *The Critical Writings of James Joyce*. Edited by Ellsworth Mason and Richard Mason. Reprint, Ithaca, New York: Cornell University Press, 1989.
- . 1959b. “Politics and Cattle Disease.” In Joyce 1959a, Chapter 47, 238–41.
- . 1961. *Ulysses*. First Vintage International ed. Reprint, New York: Random House, 1990. First published in 1922.
- . 1968. *Dubliners*. Rev. ed. Viking. Reprint, New York: Penguin Books, 1976. First published in 1916 (USA).
- . 1986. *Ulysses: The Corrected Text*. First Vintage Books ed. Edited by Hans Walter Gabler et al. New York: Random House. First published in 1922.
- . 1993. *A Portrait of the Artist as a Young Man*. Case Studies in Contemporary Criticism. Edited by R. B. Kershner. Boston: St. Martin’s Press, Bedford Books.
- Juliet, Charles. 1995. *Conversations with Samuel Beckett and Bram van Velde*. Translated from the French by Janey Tucker. Academic Press Leiden. First published as *Rencontres avec Bram van Velde and Rencontre avec Samuel Beckett* in Montpellier: Editions Fata Morgana, 1973, 1986.
- Jung, C. G. 1966a. *The Collected Works of C. G. Jung*. Edited by Sir Herbert Read, Michael Fordham, and Gerhard Adler. Translated by R. F. C. Hull. Princeton University Press.
- . 1966b. “Psychology and Literature.” In Jung 1966a, 84–105.
- . 1968a. *Analytical Psychology: Its Theory and Practice*. The Tavistock Lectures. New York: Vintage Books.
- . 1968b. “Lecture 3.” In Jung 1968a, 78–113.
- Keller, Evelyn Fox. 1985. *Reflections on Gender and Science*. New Haven: Yale University Press.
- Kelsey, Michael. 1986. *Canyon Hiking Guide to the Colorado Plateau*. Kelsey.
- . 1987. *Hiking and Exploring the Paria River*. Kelsey.
- Kelsey, Michael, and Dee Ann Finken. 1990. *Hiking Utah’s San Rafael Swell*. Kelsey.
- Kennedy, Sighle. 1971. *Murphy’s Bed: A Study of Real Sources and Sur-real Associations in Samuel Beckett’s First Novel*. Lewisburg, Pennsylvania: Bucknell University Press.
- . 1990. “Beckett’s ‘Schoolboy Copy’ of Dante: A Handbook for Liberty.” *Dalhousie French Studies* 19 (fall–winter): 11–19. Special issue titled “Exile and Transcendence.”
- Kenner, Hugh. 1968. *Samuel Beckett: A Critical Study*. New ed. Berkeley: University of California Press.
- . 1975. “Shades of Syntax.” In Cohn 1975, 21–31.

- Kirk, G. S., J. E. Raven, and Malcolm Schofield. 1983. *The Presocratic Philosophers : A Critical History with a Selection of Texts*. 2d ed. Cambridge: Cambridge University Press.
- Klein, A. M. 1950. "The Black Panther (A Study in Technique)." *Accent: A Quarterly of New Literature* 10 (2): 139–55 (winter).
- Klein, Felix. 1894. *The Evanston Colloquium Lectures on Mathematics*. New York: Macmillan and Co.
- . 1924. *Elementary Mathematics From an Advanced Standpoint*. 3d ed. 2 vols. Translated by E. R. Hedrick and C. A. Noble. Dover Publications.
- . 1928. *Development of Mathematics in the Nineteenth Century*. Volume 9 of *Lie Groups*. Translated by M. Ackerman. Reprint, Brookline, Massachusetts: Math Sci Press, 1979.
- Knowlson, James, ed. 1971. *Samuel Beckett: An Exhibition Held at Reading University Library, May to July 1971*. London: Turret Books.
- . 1983. "Beckett's 'Bits of Pipe.'" In Beja, Gontarski, and Astier 1983, 16–25.
- . 1986. "Ghost Trio/Geister Trio." In Brater 1986, 193–207.
- . 1996. *Damned to Fame: The Life of Samuel Beckett*. New York: Simon and Schuster.
- Knowlson, James, and John Pilling. 1979. *Frescoes of the Skull: The Later Prose and Drama of Samuel Beckett*. London: John Calder.
- Knuth, Donald Ervin. 1986. *The T_EXbook*. 16th printing, revised. Volume A of *Computers & Typesetting*. Illustrated by Duane Bibby. Reading MA: Addison Wesley. First published in 1984.
- Koffka, K. 1935. *Principles of Gestalt Psychology*. New York: Harcourt, Brace and World.
- Kopczyński, W., and A. Trautman. 1992. *Spacetime and Gravitation*. Revised translation. Translated from the Polish by Jerzy Baldyga and Antoni Pol. Warsaw: Polish Scientific Publishers. First published as *Czasoprzestrzeń i Grawitacja* in Warsaw: Państwowe Wydawnictwo Naukowe, 1984.
- Krance, Charles. 1983. "Odd Fizzles: Beckett and the Heavenly Sciences." *Bucknell Review* 27 (2): 96–107.
- Kroll, Jeri L. 1977. "The Surd as Inadmissible Evidence: The Case of Attorney-general v. Henry McCabe." *Journal of Beckett Studies*, no. 2:47–58.
- . 1978. "Belacqua as Artist and Lover: 'What a Misfortune.'" *Journal of Beckett Studies*, no. 3:10–39.
- Krutch, Joseph Wood. 1952. *The Desert Year*. W. Sloane.
- . 1971. *The Voice of the Desert*. W. Sloane.
- Lake, Carlton, ed. 1984. *No Symbols Where None Intended: A Catalogue of Books, Manuscripts, and Other Materials Relating To Samuel Beckett in the collections of the Humanities Research Center*. Austin: University of Texas at Austin Humanities Research Center.
- Lakoff, George. 1987. *Women, Fire, and Dangerous Things: What Categories Reveal about the Mind*. Chicago: University of Chicago Press.

- Lakoff, George, and Mark Johnson. 1980. *Metaphors We Live By*. Chicago: University of Chicago Press.
- Lambrechtse, Rudi. 1985. *Hiking the Escalante*. Wasatch.
- Lamport, Leslie. 1986. *TEX: A Document Preparation System*. Reading MA: Addison Wesley.
- Lanczos, Cornelius. 1970. *Space Through the Ages: The Evolution of Geometrical Ideas from Pythagoras to Hilbert and Einstein*. London: Academic Press.
- Laplanche, Jean. 1976. *Life and Death in Psychoanalysis*. Translated by Jeffrey Mehlman. Baltimore: Johns Hopkins University Press.
- Lawlor, Robert. 1982. *Sacred Geometry: Philosophy and Practice*. The Illustrated Library of Sacred Imagination. New York: Crossroad Publishing.
- Lawrence, D. H. 1979. *The Letters of D. H. Lawrence*. Edited by James T. Boulton. Cambridge University Press.
- Lees, Heath. 1984. "Watt, Music, Tuning and Tonality." *Journal of Beckett Studies*, no. 9:5–24.
- Leggett, A. J. 1987. *The Problems of Physics*. Oxford University Press.
- Lerner, Lawrence S., and Edward A. Gosselin. April 1973. "Giordano Bruno." *Scientific American*.
- Levy, Jay A. 1992. "Conversations with Samuel Beckett." *American Scholar* 61 (1): 124–31 (winter).
- Lewis, Wyndham. 1980. *Wyndham Lewis*. London: Lund Humphries in association with the City of Manchester Art Galleries. Exhibition held at the Manchester City Art Galley from 1 Oct to 15 Nov 1980.
- Lightman, Alan. 1992. *Great Ideas in Physics*. New York: McGraw Hill.
- Limerick, Patricia Nelson. 1985. *Desert Passages: Encounters with American Deserts*. University of New Mexico.
- Linden, Stanton J. 1978. "Herbert and the Unveiling of Diana: Stanza Three of 'Vanitie.'" *George Herbert Journal* 1 (spring): 30–37.
- Lingenfelter, Richard E., and Richard A. Dwyer, eds. 1988. *Death Valley Lore: Classic Tales of Fantasy, Adventure, and Mystery*. University of Nevada Press.
- Lippman, Carlee. 1993. "Proprioceptive Deficit in Beckett's *Not I*." *Journal of Beckett Studies*, n.s., 2 (2): 81–83.
- Lizhi, Fang. 1991. "Form and Physics." *Partisan Review* 58 (4): 656–664.
- Lodge, David. 1968. "Some Ping Understood." *Encounter* 30 (2): 85–89 (February). Also in McCarthy 1986, 119–27.
- Long, Joseph. 1996. "The Reading of *Company*: Beckett and the Bi-Textual Work." *Forum for Modern Language Studies* 32 (4): 314–28 (October).
- Longair, Malcolm. 1989. "The New Astrophysics." In Davies 1989.
- Lorenz, Konrad. 1981. *The Foundations of Ethology*. Translated from the German by Konrad Z. Lorenz and Robert Warren Kickert. New York: Springer-Verlag.
- Madison, Gary Brent. 1981. *The Phenomenology of Merleau-Ponty*. Athens: Ohio University Press. Cited in Garner 1993, 451.

- Mann, Thomas. 1936. *Death in Venice and Seven Other Stories*. Translated by H. T. Lowe-Porter. Reprint, Vintage Books, 1989.
- Maor, Eli. 1987. *To Infinity and Beyond: A Cultural History of the Infinite*. Boston: Birkhäuser.
- Marculescu, Ileana. 1989. "Beckett and the Temptation of Solipsism: 'Esse est aut percipere aut percipi.'" *Journal of Beckett Studies*, no. 11–12:53–64.
- Matthias, John, ed. 1989. *David Jones: Man and Poet*. Orono, Maine: National Poetry Foundation [at?] University of Maine.
- McCarthy, Patrick A., ed. 1986. *Critical Essays on Samuel Beckett*. Critical Essays on Modern British Literature. Boston: G. K. Hall and Co.
- . 1998. "Review of *In Principle, Beckett is Joyce*, ed. Friedhelm Rathjen." *Journal of Beckett Studies*, n.s., 8 (1): 141–45.
- McHugh, Roland. 1991. *Annotations to Finnegans Wake*. Rev. ed. Baltimore: Johns Hopkins University Press.
- McLaughlin, Peter. 1990. *Kant's Critique of Teleology in Biological Explanation: Antimony and Teleology*. Lewiston: E. Mellen Press.
- McMillan, Dougald. 1975. "Samuel Beckett and the Visual Arts: The Embarrassment of Allegory." In Cohn 1975, 121–35.
- Melville, Herman. 1855? *Moby-Dick*. On the internet.
- . 1988. *Moby-Dick, or The Whale*. Volume 6 of *The Writings of Herman Melville*. 15 vols. Edited by Harrison Hayford, Hershel Parker, and G. Thomas Tanselle. Evanston, Illinois: Northwestern University Press and The Newberry Library.
- Mercier, Vivian. 1986. "Poet and Mathematician." *Hermathena*, no. 141 (winter): 66–71.
- Merwin, W. S. 1970. *The Carrier of Ladders*. New York: Atheneum.
- Michel, Paul Henri. 1973. *The Cosmology of Giordano Bruno*. Translated by R. E. W. Maddison. Ithaca, New York: Cornell University Press.
- Milton, John. *Paradise Lost*. Project Gutenberg digital edition. Contact <hart@vmd.cso.uiuc.edu>.
- . 1952–55. *Paradise Lost*. Volume 1 of *Poetical Works*. 2 vols. Edited by Helen Darbishire. Oxford: Clarendon Press. First published in 1667.
- . 1968. *Paradise Lost and Paradise Regained*. Signet Classic Poetry Series. Edited by Christopher Ricks. PenGuin Books.
- . 1998a. "Paradise Lost." In Milton 1998b, 296–710.
- . 1998b. *The Riverside Milton*. Edited by Roy Flannagan. Boston: Houghton Mifflin.
- Minihan, George, and Aidan Higgins. 1996. *Samuel Beckett: Photographs*. New York: George Braziller. Photographs by Minihan, text by Higgins.
- Miskinis, Steven. 1996. "Enduring Recurrence: Samuel Beckett's Nihilistic Poetics." *ELH* 63 (4): 1047–1067 (winter).
- Mitchell, Breon. 1986. "A Beckett Bibliography: New Works 1976–1982." *Modern Fiction Studies* 29 (1): 131–52 (spring).

- Montgomery, Angela. 1991. "Beckett and Science: *Watt* and the Quantum Universe." *Comparative Criticism* 13:171–81.
- Mood, John J. 1971. "'The Personal System'—Samuel Beckett's *Watt*." *Publications of the Modern Language Association of America* 86 (2): 255–65.
- Moore, A. W. 1990. *The Infinite*. London: Routledge.
- Morot-Sir, Edouard. 1988. "Grammatical Insincerity in *The Unnamable*." In Bloom 1988b, 131–44.
- Morris, William, ed. 1981. *The American Heritage Dictionary of the English Language*. Boston: Houghton Mifflin.
- Murphy, P. J., Werner Huber, Rolf Breuer, and Konrad Schoell. 1994. *Critique of Beckett Criticism: A Guide to Research in English, French, and German*. Literary Criticism in Perspective. Columbia: Camden House.
- Nabokov, Vladimir Vladimirovich. 1980. *Lectures on Literature*. New York: Harcourt Brace Jovanovich.
- NeXT Computer and Merriam-Webster. 1992. *Webster's Ninth New Collegiate Dictionary*. First Digital ed. NeXT Computer and Merriam-Webster.
- Nichols, Gary. 1986. *River Runners' Guide to Utah and Adjacent Areas*. University of Utah.
- Nicholson, Marjorie Hope. *Mountain Gloom and Mountain Glory*.
- Nietzsche, Friedrich Wilhelm. 1968. *The Will to Power*. Edited by Walter Kaufmann. Translated by Walter Kaufmann and R. J. Hollingdale. New York: Vintage Books.
- Niven, Ivan Morton, Herbert S. Zuckerman, and Hugh L. Montgomery. 1991. *Theory of Numbers*. 5th ed. New York: Wiley.
- Nurmi, Martin K. 1972. *Blake's "Marriage of Heaven and Hell": A Critical Study*. New York: Haskell House.
- O'Brien, Eoin. 1986a. *The Beckett Country: An Exhibition for Samuel Beckett's Eightieth Birthday*. Dublin: Black Cat Press. catalogue by Eoin O'Brien & James Knowlson; photography by David Davidson; "this exhibition was first held in The Library, University of Reading [newline] May 1986.
- . 1986b. *The Beckett Country: Samuel Beckett's Ireland*. New York: Black Cat Press in association with Riverrun Press.
- . 1992. "Foreward." In Beckett 1993a, xi–xx.
- Odum, Howard Washington, and Guy Benton Johnson. 1968. *The Negro and His Songs: A Study of Typical Negro Songs in the South*. New York: Greenwood Publishing, Negro Universities Press. First published in 1925. Reprint of edition of 1925 by University of North Carolina Press, Chapel Hill.
- O'Hara, J. D. 1981. "Jung and the Narratives of *Molloy*." *Journal of Beckett Studies*, no. 7:19–47.
- . 1992. "Freud and the Narrative of *Moran*." *Journal of Beckett Studies*, n.s., 2 (1): 47–63.
- . 1994. "Beckett Backs Down: From Home to Murphy via Valéry." *Journal of Beckett Studies*, n.s., 3 (2): 37–55.

- . 1997. *Samuel Beckett's Hidden Drives: Structural Uses of Depth Psychology*. Gainesville: University Press of Florida.
- O'Malley, Kevin. 1984. "Review of *Theatre Workbook 1, Samuel Beckett: Krapp's Last Tape*, ed. James Knowlson." *Journal of Beckett Studies*, no. 9:145–50.
- O'Neill, Kevin C. 1992. "Two Trilogies: Notes on Beckett and Dante." *Romance Notes* 32 (3): 235–40 (spring).
- Opie, Iona, and Peter Opie, eds. 1952. *The Oxford Dictionary of Nursery Rhymes*. Corrected ed. Oxford: Clarendon Press. First published in 1951.
- Oppenheim, Lois, and Marius Buning, eds. 1996. *Beckett On and On . . .*. Madison: Fairleigh Dickinson University Press.
- Orr, M. A. 1956. *Dante and the Early Astronomers*. FIX NEED ORIGINAL PUBLISHER AND ADDRESS. Reprint, Port Washington, New York: Kennikat Press, 1969. First published in 1913.
- Ovid (Publius Ovidius Naso). 1977. *Ovid in Six Volumes*. 3d ed. Loeb Classical Library. Translated by Frank Justus Miller. Cambridge: Harvard University Press. Composed in 0007.
- Peacham, Henry. 1954. *The Garden of Eloquence*. Gainesville: Scholars' Facsimiles and Reprints.
- Penrose, Roger. 1981. "Time-asymmetry and Quantum Gravity." In Isham, Penrose, and Sciama 1981.
- . 1986. "Gravity and state vector reduction." In *Quantum Concepts in Space and Time*, edited by R. Penrose and C. J. Isham. Oxford: Clarendon Press.
- . 1989. *The Emperor's New Mind: Concerning Computers, Minds, and The Laws of Physics*. New York: Oxford University Press.
- Perkins, David. *Is Literary History Possible?*
- , ed. 1967. *English Romantic Writers*. San Diego: Harcourt Brace Jovanovich.
- Pilling, John. 1976. *Samuel Beckett*. London: Routledge and Kegan Paul.
- , ed. 1994. *The Cambridge Companion to Beckett*. Cambridge: Cambridge University Press.
- . 1996. "A Short Statement with Long Shadows: Watt's Arsene and His Kind(s)." In Oppenheim and Buning 1996, 61–68.
- . 1998. *Beckett Before Godot*. Cambridge: Cambridge University Press.
- Pilling, John, and Mary Bryden, eds. 1992. *The Ideal Core of the Onion: Reading Beckett Archives*. Beckett International Foundation.
- Pingree, David, ed. 1986. *Picatrix, the Latin Version of the Ghayat al-hakim*. London: Warburg Institute. Authorship attributed to Maslamah ibn Ahmad al-Majriti.
- Pompa, Leon. 1976. In Tagliacozzo and Verene 1976, 125–40.
- Porter Abbott, H. 1977. "A Grammar for Being Elsewhere." *Journal of Modern Literature* 6 (1): 39–46 (February).

- . 1983. “The Harpooned Notebook: *Malone Dies* and the Conventions of Intercalated Narrative.” In Beja, Gontarski, and Astier 1983, 71–79.
- Posnock, Ross. 1981. “Beckett, Valéry and *Watt*.” *Journal of Beckett Studies*, no. 6:51–62.
- Powell, John Wesley. 1961. *The Exploration of the Colorado River and Its Canyons*. Dover.
- Preminger, Alex, and T. V. F. Brogan, eds. 1993. *The New Princeton Encyclopedia of Poetry and Poetics*. Princeton: Princeton University Press.
- Putnam, Samuel, Maida Castelhun Darton, George Reavey, and J. Bronowski, eds. 1931. *France, Spain, England and Ireland*. Volume 1 of *The European Caravan: An Anthology of the New Spirit in European Literature*. Brewer, Warren and Putnam. Subsequent volumes were not published.
- Rabinovitz, Rubin. 1983. “Unreliable Narrative in *Murphy*.” In Beja, Gontarski, and Astier 1983, 58–70.
- . 1984. *The Development of Samuel Beckett’s Fiction*. Urbana: University of Illinois Press.
- . 1986. “Style and Obscurity in Samuel Beckett’s Early Fiction.” In McCarthy 1986, 21–29.
- . 1989. “Beckett and Psychology.” *Journal of Beckett Studies*, no. 11–12:65–77.
- . 1990. “Using the Concordance: *Murphy* and Repetition.” In Barale and Rabinovitz 1990, xi–xxix.
- . 1991. “Samuel Beckett, Revisionist Translator.” *Review* 13:273–81. Review of *Beckett and Babel: An Investigation into the Status of the Bilingual Work* by Brian Fitch, Toronto: University of Toronto Press, 1988.
- . 1992. *Innovation in Samuel Beckett’s Fiction*. Urbana: University of Illinois Press.
- . 1995. “Samuel Beckett’s Revised Aphorisms.” *Contemporary Literature* 36 (2): 203–25.
- Rawlins, Ian. 1953. *Aesthetics and the Gestalt*. Edinburgh: Thomas Nelson and Sons.
- Read, Herbert. 1955a. In Read 1955b, 3–35.
- . 1955b. *The Philosophy of Modern Art*. New York: Meridian Books.
- Redfern, Walter. 1998. “A Funny-bone to Pick with Beckett.” *Journal of Beckett Studies*, n.s., 8 (1): 101–19.
- Redmond, James, ed. 1990. *Drama and Philosophy*. Themes in Drama no. 12. Cambridge: Cambridge University Press.
- Renaud, Madeleine. 1967. “Beckett the Magnificent.” In Calder 1967, 81–83.
- Reynolds, Mary T. 1981. *Joyce and Dante: The Shaping Imagination*. Princeton: Princeton University Press.
- Richardson, Kenneth, ed. 1969. *Twentieth Century Writing: A Reader’s Guide to Contemporary Literature*. London: Newnes Books.

- Ricks, Christopher B. 1993. *Beckett's Dying Words*. The Clarendon Lectures, 1990. New York: Oxford University Press.
- Ricoeur, Paul. 1970. *Freud and Philosophy*. The Terry Lectures. Translated by Denis Savage. New Haven: Yale University Press.
- Riding, Alan. 1996. "Samuel Beckett Gets an Irish Embrace." *New York Times*, 28 July, H5, H12.
- Riquelme, John Paul. 1983. *Teller and Tale in Joyce's fiction: Oscillating Perspectives*. Baltimore: Johns Hopkins University Press.
- Robinson, James E. 1990. "Bruno and Beckett: Coincidence of Contraries." In Redmond 1990, 171–83.
- Robinson, Michael. 1979. "From Purgatory to Inferno: Beckett and Dante revisited." *Journal of Beckett Studies*, no. 5:69–82.
- Rose, Lloyd. 1994. "Way to *Godot!* Washington Shakespeare's Boffo Beckett." *Washington Post*, 25 May, C11.
- Rosenberg, Isaac. 1979. *The Collected Works of Isaac Rosenberg: Poetry, Prose, Letters, Paintings, and Drawings*. Edited by Ian Parsons. New York: Oxford University Press.
- Rotman, Brian. *About Nothing: The Semiotics of Zero*.
- Rucker, Rudy. *Infinity and the Mind*.
- Rudin, Walter. 1976. *Principles of Mathematical Analysis*. 3d ed. International Series in Pure and Applied Mathematics. New York: McGraw-Hill. First published in 1953.
- Sacks, Oliver W. 1985. *The Man Who Mistook His Wife for a Hat and Other Clinical Tales*. New York: Summit Books.
- Salmon, Merrilee H., John Earman, Clark Glymour, James G. Lennox, Peter Machamer, J. E. McGuire, John D. Norton, Wesley C. Salmon, and Kenneth F. Schaffner. 1992. *Introduction to the Philosophy of Science*. Englewood Cliffs, New Jersey: Prentice Hall.
- Schopenhauer, Arthur. 1883. *The World as Will and Idea*. 3 vols. Translated from the German by R. B. Haldane and J. Kemp. Reprint, London: Kegan Paul, Trench, Trübner and Co., 1896.
- . 1958. *The World as Will and Representation*. 2 vols. Translated from the German by E. F. J. Payne. Indian Hills, Colorado: Falcon's Wing Press.
- Sciama, D. W. 1981. "The Irreversible Thermodynamics of Black Holes." In Isham, Penrose, and Sciama 1981.
- Scruton, Roger. 1983a. *The Aesthetic Understanding: Essays in the Philosophy of Art and Culture*. Manchester, England: Carcanet Press.
- . 1983b. "Beckett and the Cartesian Soul." In Scruton 1983a, Chapter 16, 222–41.
- . 1986. *Spinoza*. Oxford: Oxford University Press.
- . 1999. *The Aesthetics of Music*. Oxford University Press.
- Sebha, Gregor. 1987. *The Dream of Descartes*. The *Journal of the History of Philosophy* Monograph Series. Edited by Richard A. Watson. Carbondale: Southern Illinois University Press.

- Segrè, Elisabeth Bregman. 1977. "Style and Structure in Beckett's *Ping: That Something Itself*." *Journal of Modern Literature* 6 (1): 127–47 (February).
- Seidel, Michael. 1976. "Ulysses' Black Panther Vampire." *James Joyce Quarterly* 13 (4): 415–27 (summer).
- Shakespeare, William. 1988. *The Complete Works*. Digital ed. Edited by Stanley Wells, Gary Taylor, et al. Oxford: Oxford University Press and NeXT Digital Press.
- Sharp, Cecil J. 1932. *English Folk Songs from the Southern Appalachians: Comprising 274 Songs and Ballads with 968 Tunes, Including 39 Tunes Contributed by Olive Dame Campbell*. 2d and enl. ed. Edited by Maud Karpeles. London: Oxford University Press. First published in 1917.
- Shaw, Harry. 1972. *Concise Dictionary of Literary Terms*. New York: McGraw-Hill.
- Shenker, Israel. 1956. "Moody Man of Letters: A Portrait of Samuel Beckett, Author of the Puzzling *Waiting for Godot*." *New York Times*, 6 May, sec. 2, pp. 1, 3.
- Shimony, Abner. 1989. "The Conceptual Foundations of Quantum Mechanics." In Davies 1989, 373–95.
- . 1993. *Search for a Naturalistic World View*. Volume 2 vols. Cambridge: Cambridge University Press.
- Shipley, Joseph T., ed. 1970. *Dictionary of World Literary Terms, Forms, Technique, Criticism*. Rev. and enl. ed. London: George Allen and Unwin.
- Shlain, Leonard. 1991. *Art & Physics: Parallel Visions in Space, Time, and Light*. New York: Quill.
- Sidney, Sir Philip. 1970. "An Apology for Poetry." In Bate 1970, 82–106.
- Silkin, Jon, ed. 1981. *The Penguin Book of First World War Poetry*. 2d ed. London: Penguin Books.
- Simpson, J. A., and E. S. C. Weiner, eds. 1989. *The Oxford English Dictionary*. 2d ed. New York: Oxford University Press.
- Singer, Dorothea Waley. 1968. *Giordano Bruno: His Life and Thought (With Annotated Translation of His Work On the Infinite Universe and Worlds)*. New York: Greenwood Press.
- Singer, Irving. 1984. *The Nature of Love*. Chicago: University of Chicago Press.
- . 1992. *Meaning in Life : The Creation of Value*. New York: Free Press.
- Skeat, Walter W. 1882. *A Concise Etymological Dictionary of the English Language*. Corrected impression. Reprint, London: Oxford University Press, 1927.
- Smith, Anna. 1993. "Proceeding by Aporia: Perception and Poetic Language in Samuel Beckett's *Worstward Ho*." *Journal of Beckett Studies*, n.s., 3 (1): 21–37.
- Smith, Sir William, and Sir John Lockwood. 1976. *Chambers Murray Latin-English Dictionary*. Edinburgh and London (respectively): W and R Chambers and John Murray. Also known as *A Smaller Latin-English Dictionary* in a 1933 edition.

- Solomon, Philip H. 1975. *The Life After Birth: Imagery in Samuel Beckett's Trilogy*. Romance Monographs no. 15. University, Mississippi: Romance Monographs.
- Sondheimer, Ernst, and Alan Rogerson. 1981. *Numbers and Infinity: A Historical Account of Mathematical Concepts*. Cambridge: Cambridge University Press.
- Sorabji, Richard. 1988. *Matter, Space, and Motion*. Ithaca: Cornell University Press.
- Sorley, Charles Hamilton. 1990. *The Collected Letters of Charles Hamilton Sorley*. Edited by Jean Moorcroft Wilson. London: Cecil Woolf.
- Stachel, John. "Changes in Concepts of Space and Time Brought about by Relativity." Paper received from author in spring 1993. Do not know if published. 34 pages.
- Stegner, Wallace. 1954. *Beyond the Hundredth Meridian*. Houghton Mifflin.
- Steiner, George. 1996. "Leastness." *New Yorker*, 16 September, 92–95.
- Steppe, Wolfhard, and Hans Walter Gabler. 1985. *A Handlist to James Joyce's Ulysses: A Complete Alphabetical Index to the Critical Reading Text*. Volume 582 of *Garland Reference Library of the Humanities*. Garland.
- Stern, Richard. 1991. "Samuel Beckett." *Salmagundi*, no. 90–91 (spring–summer): 179–90.
- Stevens, Wallace. 1954a. *Collected Poems*. New York: Knopf.
- . 1954b. *The Collected Poems of Wallace Stevens*. New York: Knopf. Reprint, New York: Vintage Books, 1990.
- Stevenson, Kay Gilliland. 1986. "Belacqua in the Moon: Beckett's Revisions of 'Dante and the Lobster.'" In McCarthy 1986, 36–46.
- Swift, Jonathan. 1969. *A Tale of a Tub*. Edited by Edward Hodnett. New York: AMS Press. First published in New York: Columbia University Press, 1930.
- Swinger, Ann. 1975. *Run, River, Run: A Naturalist's Journey Down One of the Great Rivers of the American West*. University of Arizona.
- Tagliacozzo, Giorgio, and Donald Phillip Verene, eds. 1976. *Giambattista Vico's Science of Humanity*. Johns Hopkins University Press.
- Tawney, R. H. 1953. "The Attack." In *The Attack and Other Papers*. New York: Harcourt Brace and Co.
- Tennyson, Lord Alfred. 1971. *Tennyson's Poetry*. Edited by Jr. Robert W. Hill. W. W. Norton and Co.
- Topsfield, Valerie. 1988. *The Humour of Samuel Beckett*. New York: St. Martin's Press.
- Torretti, Roberto. 1978. *Philosophy of Geometry from Riemann to Poincaré*. Dordrecht, Holland: D. Reidel Publishing.
- Trismegistus, Hermes. 1657. *Hermes Mercurius Trismegistus his Divine pyman-der [microform] : in seventeen books : together with his second book called Asclepius, containing fifteen chapters with a commentary / translated formerly out of the Arabick into Greek, and thence into Latine, and Dutch, and now out of the original into English by Dr. Everard*. London: "Printed by J. S. for Thomas Brewster".

- Turner, Frederick. 1992. "The School of Night." In *Natural Classicism: Essays on Literature and Science*, 111–50. Charlottesville: University Press of Virginia.
- Tuveson, Ernest Lee. 1982. *The Avatars of Thrice Great Hermes: An Approach to Romanticism*. Lewisburg: Bucknell University Press.
- Unger, Peter. 1979. "I Do Not Exist." In Ayer et al. 1979, Chapter 10, 235–51. University of Chicago Press. 1982. *The Chicago Manual of Style*. 13th ed. Chicago: University of Chicago Press.
- . 1993. *The Chicago Manual of Style*. 14th ed. Chicago: University of Chicago Press.
- van Leunen, Mary-Claire. 1979. *A Handbook for Scholars*. Knopf.
- van Velde, Bram. 1989. *Bram van Velde: Musee National d'Art Moderne, Centre Georges Pompidou*. Collection Classiques du XXe siecle, ISSN 0760-5153. Edited by Claire Stoullig. Paris: Le Centre. Catalog of an exhibition held 19 Oct 1989 to 1 Jan 1990.
- Verdicchio, Massimo. 1989. "Exagmination Round the Fictification of Vico and Joyce." *James Joyce Quarterly* 26 (4): 531–39 (summer).
- Vernon, William Warren. 1907. *Readings on the Purgatorio of Dante: Chiefly Based on the Commentary of Benvenuto da Imola*. 3d ed., rev., 2 vols. London: Methuen. First published in 1889.
- Virgil (Publius Vergilius Maro). 1909. *The Aeneid*. Internet Wiretap online ed. Volume 13 of *Harvard Classics*. Translated by John Dryden. New York: P. F. Collier and Son.
- . 1972. *The Aeneid of Virgil: Books 1–6*. Edited by R. D. Williams. Macmillan.
- . 1983. *The Aeneid*. Translated by Robert Fitzgerald. New York: Vintage Books.
- von Goethe, Johann Wolfgang. 1961. *Faust*. Translated by Walter Kaufmann. New York: Doubleday. Part one and selections from part two.
- . 1976. *Faust*. Norton Critical ed. Edited by Cyrus Hamlin. Translated by Walter Arndt. New York: W. W. Norton and Co.
- Wald, Robert M. 1981. "Black Holes, Thermodynamics, and Time-reversibility." In Isham, Penrose, and Sciama 1981.
- . 1984. *General Relativity*. Chicago: University of Chicago Press.
- Walker, D. P. 1958. *Spiritual and Demonic Magic from Ficino to Campanella*. University of London: Warburg Institute. Cited in Yates 1964.
- Weiner, Andrew D. 1978. Chapter 1 of *Sir Philip Sidney and the Poetics of Protestantism: A Study of Contexts*. Minneapolis: University of Minnesota Press.
- Weyl, Hermann. 1952. *Symmetry*. Princeton: Princeton University Press.
- White, Hayden. 1976. In Tagliacozzo and Verene 1976, 65–85.
- Whitman, Walt. 1965. *Leaves of Grass*. Edited by Sculley Bradley and Harold W. Blodgett. New York University Press. Reprint, New York: W. W. Norton and Co., 1973. First published in 1891.

- Whyte, Lancelot Law. 1961. *Essay on Atomism, From Democritus to 1960*. Middletown, Connecticut: Wesleyan University Press.
- Wilde, Oscar. 1989. *Oscar Wilde*. Oxford Authors. Edited by Isobel Murray. Oxford: Oxford University Press.
- Will, Clifford. 1989. "The Renaissance of General Relativity." In Davies 1989.
- Williams, Terry Tempest, and John Telford. 1989. *Coyote's Canyon*. Gibbs Smith.
- Wilson, Edward O. 1984. *Biophilia*. Cambridge: Harvard University Press.
- . 1988. *On Human Nature*. Cambridge: Harvard University Press.
- . 1998. *Consilience: The Unity of Knowledge*. New York: Knopf.
- . 2000. *Sociobiology: The New Synthesis*. Twenty-Fifth Anniversary Edition. Cambridge, Massachusetts: Belknap Press.
- Wind, Edgar. 1968. *Pagan Mysteries in the Renaissance*. New York: Barnes and Noble.
- Winston, Mathew. 1977. "Watt's First Footnote." *Journal of Modern Literature* 6 (1): 69–82 (February).
- Withycombe, E. G. 1969. *The Oxford Dictionary of English Christian Names*. Corrected 2d ed. Oxford: Oxford University Press.
- Wolfson, Harry Austryn. 1973. *Studies in the History of Philosophy and Religion*. 2 vols. Edited by Isadore Twersky and George H. Williams. Harvard University Press.
- Wolosky, Shira. 1995. *Language Mysticism: The Negative Way of Language in Eliot, Beckett, and Celan*. Stanford: Stanford University Press.
- Work, John Wesley. 1915. *Folk Song of the American Negro*. Nashville, Tennessee. Reprint, New York: Negro Universities Press, 1969.
- Yates, Frances A. 1964. *Giordano Bruno and the Hermetic Tradition*. London: Routledge and Kegan Paul.
- Zeifman, Hersh. 1975. "Religious Imagery in the Plays of Samuel Beckett." In Cohn 1975, 85–94.
- . 1983. "Come and Go: A Criticule." In Beja, Gontarski, and Astier 1983, 137–44.
- Zurbrugg, Nicholas. 1989. "Review of Samuel Beckett Special Issue of *Irish University Review: A Journal of Irish Studies* 14 (1), spring 1984." *Journal of Beckett Studies*, no. 11–12:163–66.
- Zwinger, Ann. 1978. *Wind in the Rock*. Harper and Row.

Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

Symbols	<code>\end.bib</code> <u>1945</u>	M
<code>\"</code> 1139	<code>\entry</code> 1048	<code>\majorthesis</code> <u>1649</u>
<code>\#</code> 1192	<code>\etal</code> <u>124</u>	<code>\make.annotation</code> .. <u>508</u>
<code>\|</code> ..... 1125	<code>\evary</code> 1047	<code>\make.as.ftitle.ital</code> <u>653</u>
A	F	<code>\make.bookauthors.secondary</code> <u>598</u>
<code>\and</code> <u>101</u>	<code>\field</code> . 1048, 1061, 1577	<code>\make.booktitle.ital</code> <u>653</u>
<code>\article</code> <u>1358</u>	<code>\field.or.null</code> <u>229</u>	<code>\make.chapter</code> <u>976</u>
<code>\author.q</code> <u>344</u>	<code>\file</code> 1	<code>\make.chapter.of</code> .. <u>961</u>
B	<code>\filedate</code> 12	<code>\make.crossref</code> <u>906</u>
<code>\begin</code> 512, 1951	<code>\fileinfo</code> 8	<code>\make.edition</code> <u>518</u>
<code>\begin.bib</code> <u>1945</u>	<code>\fileversion</code> 11	<code>\make.editors.secondary</code> <u>583</u>
<code>\begin.entry</code> <u>1348</u>	<code>\finish.entry</code> <u>1352</u>	<code>\make.illustrators</code> . <u>614</u>
<code>\bibitem</code> 220	<code>\format.clip</code> <u>255</u>	<code>\make.leaditem.with.tags</code> <u>570</u>
<code>\BibTeX</code> 1126	<code>\format.n.dashify</code> . <u>298</u>	<code>\make.number.tr</code> ... <u>990</u>
<code>\blank.q</code> <u>344</u>	<code>\format.names.firstfirst</code> <u>473</u>	<code>\make.title.for.sort</code> <u>1838</u>
<code>\book</code> <u>1388</u>	<code>\format.names.for.label</code> <u>406</u>	<code>\make.title.inquotes</code> <u>669</u>
<code>\booklet</code> <u>1708</u>	<code>\format.names.for.sort</code> <u>1105</u>	<code>\make.title.ital</code> .. <u>653</u>
<code>\builtin</code> 1106, 1187, 1190	<code>\format.names.lastfirst</code> <u>441</u>	<code>\make.translators</code> . <u>614</u>
C	<code>\format.sortify.clip</code> <u>259</u>	<code>\make.vol.series.num.month.pages</code> <u>686</u>
<code>\calc.labels</code> <u>1003</u>	<code>\format.thesis</code> ... <u>1649</u>	<code>\make.year.month</code> .. <u>531</u>
<code>\check.empty</code> <u>267</u>	<code>\function</code> .. 1134, 1196	<code>\make.year.nomonth</code> . <u>531</u>
<code>\check.q</code> <u>394</u>	G	<code>\make.year.or.oyear.month</code> <u>552</u>
<code>\chop.word</code> <u>1828</u>	<code>\gvar</code> 1047	<code>\manual</code> 1194, 1252, <u>1692</u>
<code>\citeNP</code> 907	H	<code>\mastersthesis</code> ... <u>1649</u>
<code>\colon</code> <u>124</u>	<code>\hyphen</code> <u>124</u>	<code>\minorthesis</code> <u>1649</u>
<code>\comma</code> <u>124</u>	I	<code>\multipage.p</code> <u>275</u>
<code>\conference</code> <u>1722</u>	<code>\inbook</code> <u>1493</u>	N
D	<code>\inc.j</code> <u>344</u>	<code>\new.block</code> <u>173</u>
<code>\debugmsg</code> <u>79</u>	<code>\incollection</code> <u>1571</u>	<code>\new.sentence</code> <u>180</u>
<code>\debugval</code> <u>79</u>	<code>\init.scalars</code> <u>89</u>	<code>\newblock</code> 196
<code>\def</code> 1, 8–13	<code>\initelyHavECitationS</code> 10	<code>\not</code> <u>101</u>
<code>\default.type</code> <u>1826</u>	<code>\initialize.sorting-gvars</code> <u>1900</u>	O
<code>\delimiter.name</code> ... <u>124</u>	<code>\inproceedings</code> ... <u>1722</u>	<code>\or</code> <u>101</u>
<code>\delimiter.name-part</code> <u>124</u>	<code>\italicize</code> <u>237</u>	<code>\organization.q</code> ... <u>344</u>
<code>\delimiter.sub-sortkey</code> <u>124</u>	K	<code>\output</code> <u>210</u>
<code>\docdate</code> 13	<code>\key.q</code> <u>344</u>	<code>\output.begin</code> <u>166</u>
<code>\DoXPackageS</code> 9		<code>\output.bibitem</code> ... <u>218</u>
E		
<code>\editor.q</code> <u>344</u>		
<code>\either.or.check</code> .. <u>333</u>		
<code>\end</code> 514, 1955		

\output.end	<u>170</u>	R	\textitswitch	242
\output.internal ..	<u>187</u>	\reverse.pass.add.as	\thesis	<u>1649</u>
\output.series.number		.....	\tie .....	<u>124</u>
.....	<u>909</u>	S	\tie.or.space.connect	
\output.volume.series		\SCcite .....	.....	<u>324</u>
.....	<u>939</u>	\SCdup	U	
		\UnexpandableProtect	
P		\SCduplicate .....	.....	220
\parenthesize	<u>246</u>	\set.principal-field.principal-type	.....	<u>220</u>
\period	<u>124</u>	.....	\unidentified .....	<u>124</u>
\phdthesis	<u>1649</u>	\space	\unpublished	<u>1815</u>
\presort	<u>1849</u>	\start.a.q		
\proceedings	<u>1763</u>	T	W	
		\techreport	\Wrapquotes	674
				<u>1800</u>