

uothesis — A L^AT_EX package for the generation
of theses and dissertations that meet the
requirements established by the University of
Oregon Graduate School*

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Contents		9 Trouble Shooting and FAQ's	10
1 Introduction	2	10 Implementation	12
1.1 New To This Version (2.5)	2	10.1 Preamble	12
1.2 New To This Version (2.5.1)	3	10.2 Required Packages	13
1.3 New To This Version (2.5.2)	3	10.3 Document-wide Macros and Options	14
1.4 New To This Version (2.5.3)	3	10.3.1 Draft Only Macros and Op- tions	14
1.5 New To This Version (2.5.4)	3	10.4 General Macros and En- vironments	15
2 Installation	3	10.5 Internal Variables and Commands	16
3 Requirements	3	10.6 User Accessible Variables and Commands	18
4 The Class File	4	10.6.1 Titles	18
5 Class Options	4	10.6.2 Author Strings	18
5.1 General class options	4	10.6.3 School Informa- tion and Exami- nation Committee	18
5.2 Formatting class options	5	10.6.4 Degree and Grad- uation	19
6 Manuscript macros	5	10.6.5 Abstract, Dedic- ation, etc.	19
6.1 General macros	5	10.6.6 Signature Page In- ternal Commands	19
6.2 Editing macros	6	10.6.7 CV Internal Com- mands	19
6.3 Chemistry macros	6		
7 Manuscript organization	7		
7.1 Manuscript header example	7		
8 Manuscript meta-data	9		
8.1 Main information	9		
8.2 Chapter-like meta-data	9		
8.3 The Curriculum Vitae	10		

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10.6.8 CV commands . . .	20	10.20The Chapter Headings Formatting	33
10.7 Preliminary page format- ting, layout, and settings .	20	10.21Section Headings format- ting	35
10.8 The Title Page Layout . . .	22	10.21.1 Numbering Hier- archies	37
10.9 The Approval Page	23	10.22Bibliography Formatting .	38
10.10The Copyright Page	24	10.23Float Labels	38
10.11The Abstract Page	24	10.24Italicized Description La- bels	39
10.12The Acknowledgments Page	25	10.25Appendix Formatting . .	39
10.13The Dedication Page	26	10.26Correction of Spacing Problems	39
10.14The Curriculum Vitae	28	10.27Environment Refinements	40
10.15Full Draft Front Matter . . .	29	10.28Reference Pages	41
10.16Working Draft Front Matter	29	11 Change History	42
10.17Typeset the appropriate frontmatter	31	12 Index	44
10.18General Heading Format- ting	31		
10.18.1 TOC,TOF, etc. . . Headers	32		
10.19Table of Contents For- mating	32		

1 Introduction

The `uthesis` class file provides support for generating properly formatted documents that comply with the University of Oregon Graduate School style guidelines for the preparation of dissertations and theses. The use of this class does not replace the review process by the Thesis Editor or guarantee the document will pass that review perfectly. Its intention is to simplify the formatting of the document and limit the type of possible corrections to minor fine tuning. This document summarizes the features of the class and provides an example header for the generation of a basic document. This document is NOT intended as a substitute for the University of Oregon Graduate School manual and will not be repeating the specifics of document formatting, as the user is expected to have downloaded, read and understood that manual¹.

1.1 New To This Version (2.5)

There have been a number of changes to this version to deal with a couple of persistent bugs in the code and to make the CV a little easier to write. The changes to the CV are indicated below in the appropriate section²Second, the package `natbib` is now required by the `cls`. Users should add the `\usepackage` command from their header files as shown in the example header later in this document. Customization of the citation formatting can be accomplished through the use of a list of options as described in the `natbib` documentation. The last change is the requiring of the command `\formatbib` to the header file above the bibliography section as demonstrated in the example header later in this document.

¹Thesis and Dissertation Style and Policy Manual (v. Fall 2010)

²Please note that you will have to change your current CV structure to get a clean compile at this point

1.2 New To This Version (2.5.1)

The package `natbib` is still required by the `cls`, but now it is loaded directly, no user input is required to load `\natbib` by itself. Customization of the citation formatting can now be accomplished through the use of the native `natbib` options, as described in the `natbib` documentation, included in the options for the class itself. This change is reflected in the example header in this document. Last, the problem requiring the `\formatbib` command has been corrected and now is not needed. Calling the `\formatbib` command will now produce an error.

1.3 New To This Version (2.5.2)

This version corrects a page number position change that was recently put in place by the graduate school.

1.4 New To This Version (2.5.3)

Corrected a formatting issue with the block quotes environment.

1.5 New To This Version (2.5.4)

Added the `nofigures` and `notables` options. These options are used to exclude the LOF and LOT from the TOC's if no tables or figures are present in the document. Also an issue with the TOC column labels and long section titles not wrapping were corrected.

2 Installation

The package is supplied in `dtx` format, running `tex uothesis.dtx` will extract the package whereas `latex uothesis.dtx` will extract it and also typeset the documentation.

Typesetting the documentation requires a number of packages in addition to those needed to use the package. This is mainly because of the number of demonstration items included in the text. To compile the documentation without error, you will need the packages:

- `array`
- `hypdoc`
- `lmodern`
- `booktabs`
- `listings`
- `microtype`

3 Requirements

The `uothesis` class itself minimally requires the following packages:

- `float`
- `setspace`
- `todonotes`
- `subfig`
- `natbib`
- `ragged2e`
- `xcolor`
- `lineno`
- `graphicx`
- `layouts`
- `draftwatermark`

Additional features and functionality may require the following packages:

- `mhchem` (for `chemistry`)
- `amssymb` (for `amstex`)
- `amsmath` (for `amstex`)
- `amsthm` (for `amstex`)
- `lipsum` (for `lipsum`)

These are normally present in the current major T_EX distributions, but are also available from [The Comprehensive TeX Archive Network](#). Note that these packages themselves may have secondary dependencies not expressly listed here. When in doubt read their documentation.

4 The Class File

`uothesis` is an extended version of the `report` L^AT_EX primitive class. It has been heavily extended to comply with the University of Oregon Graduate School requirements for the formatting of dissertations and theses. While every effort has been made to assure that the class generates a document that fully complies with the Graduate School's requirements, every document will be different and use different packages that may cause formatting issues. Therefore, the use of this package *does not* replace extensive proof reading or the meetings with the thesis editor.

5 Class Options

Class options for `uothesis` should be declared in the usual manner within square brackets during the class declaration in the header:

```
\documentclass[option1,option2,option3]{uothesis}
```

Note that class options should be coma separated.

5.1 General class options

<code>dissertation</code>	Formats the document for a Ph.D. dissertation.
<code>msthesis</code>	Formats the document for a Master's thesis (still experimental... Graduate School has not approved for theses.)
<code>draftimages</code>	Graphics included using <code>\includegraphics</code> are suppressed to just their bounding boxes and file names. This option is useful for quick compiles where only the layout of the pages and text are a concern. This option is suppressed by the option <code>final</code> .
<code>draftcopy</code>	Creates a draft copy of the document. Dates the document on each page, does not include the preliminary pages, TOC, TOF, or TOT. A page of notes and omissions is created after the cover page for use with the editorial macros below. This option also uses the <code>bound</code> option, which shifts the text block slightly to one side for three hole punching. Line numbering is also invoked for this draft mode and the text is shrunk down by one size to reduce paper if the draft is printed.
<code>committeedraft</code>	Like <code>draftcopy</code> except includes front matter and standard title page. Does not include the texts of the acknowledgement or dedication. For distribution to committee members.

<code>latedraft</code>	Useful for last-minute preparations, corrections, and editing before handing the document to the graduate school. For all purposes, <code>latedraft</code> is identical to <code>final</code> , with the exception that the dedication and the acknowledgements are suppressed and the inclusion of a disclaimer to clearly mark this as a draft copy.
<code>final</code>	The final draft for presentation to the graduate school.

5.2 Formatting class options

<code>justified</code>	This option turns off the ragged right setting for the large text blocks of the document and returns the text block formatting to the L ^A T _E X default, which is full justification. The UOGS does not generally approve of full justification, but they will accept it in this case since L ^A T _E X does it properly.
<code>copyright</code>	Includes the copyright page.
<code>numsections</code>	Provides the option of numbered sections.
<code>gsmodern</code>	An alternate formatting scheme to <code>numsections</code> that still provides the section numbering. This has been designed to be closer to technical manuscripts with the numbering hierarchy spanning from the Chapter to the subsection level.
<code>contnumbering</code>	This changes the figure and table numbering to be continuous throughout the document from start to finish.
<code>amstex</code>	Loads <code>amsmath</code> , <code>amsthm</code> , and <code>amssymb</code> packages in proper order.
<code>chemistry</code>	Loads the <code>amstex</code> class option, <code>mhchem</code> , and <code>chemstyle</code> packages. Defines new environments for long and short reactions (<code>chem</code> and <code>Chem</code>) and a new cross reference type for reactions (<code>rxn:</code>) for use with <code>\eqref{}</code> . The <code>rxn:</code> prefix is paired with a new counter to keep track of the reaction environments. This counter is reset by chapter by default.
<code>smallcaps</code>	Allows small caps in titles and TOC. This option should only be used if there is a need to differentiate between capital and lower case letters in the title, such as with atomic symbols.
<code>bound</code>	The <code>bound</code> option is provided strictly for personal use. It reformats the margins and text block parameters to allow for printing and binding of finished documents. A disclaimer is placed at the bottom of the copyright page, and the copyright notation on this page is suppressed.
<code>nofigures</code>	Excludes the list of figures from the table of contents section of the frontmatter in cases where there are no figures in the document.
<code>notables</code>	Excludes the list of tables from the table of contents section of the frontmatter in cases where there are no tables in the document.

6 Manuscript macros

6.1 General macros

<code>\cleanbreak</code>	Forces a clean linebreak in the TOC, TOT, and TOF. This macro is provided to correct issues with over-run in the TOC, etc. It is used so:
--------------------------	---

```
\chapter[This is the use of the \linebreak...]{This is the use of
the...}
```

The line would break at the point indicated. This macro does not always work depending on how badly other typesetting rules are violated and should only be used in the square bracketed "short title" area. Note that to conform to the University of Oregon Graduate School style manual the title in the square and

curly brackets should be identical. A second caveat to this command is that it is especially unstable with the use of ragged right text blocks. The method that is used for the fully justified text block (L^AT_EX default) is incompatible with the `Ragged2e` package, and so a second method, `\newline`, is used. This method gives L^AT_EX the option of allowing a page break in the middle of the TOC entry.

`\ie` The following commands to provide macro's for common latin phrases. These
`\etc` commands assume that it is desired for these phrases to be italicized and provide
`\etal` proper punctuation after the latin phase. The code is taken from the Chemstyle
`\eg` package.

6.2 Editing macros (`draftcopy`, `committeedraft`)

`\ednote` `\ednote{}` is a variation on standard margin notes. A numbered margin note will be placed in the margin with a place holder in the text body at the location in the text. A line will connect the place holder with the margin note and the text in the "`{}`" will appear on the notes page in the draft copy of the document. The macro is used so:

`This is some text that needs a callout\ednote{this is a call out}.`

`\needref` `\needref{}` places a diamond in the text body at the command location, and a red margin note at the same line with an arrow and a "citation." The "`{}`" can be left blank, but must be included at the moment. Text in the braces will also appear on the notes page in the draft copy.

`\rfmk` Extensive use of the `\needref{}` macro may result in float errors in the compile. The `\rfmk` command is provided in such cases. It does not provide margin note, only the text marker in the document body and the entry into the list of todo's that appears in the draft mode. `\rfmk` also functions in draft modes, inserting a dummy `\cite` command in the text which results in the default missing citation place holder for the bibtex style being used.

`\here` `\here` places a square in the text body and a red "here" in the margin. It is intended to mark incomplete sections and will place an "incomplete section" note in the draft copy notes page.

6.3 Chemistry macros (`chemistry`)

These commands use a combination of `mhchem` and `amsmath` calls to create two new environments, `chem` and `Chem`. These reactions can be cross referenced using the `rxn` prefix in `\eqref{}`.

`\eqref{rxn:somernxn}`

`\chem` `\chem` is for short equations (no more than 1 column width) and uses `mhchem` and standard AMS `equation` environments. It is used so:

`\chem[rxn:fristrxn]{MT2X4}`

`\Chem` The second environment is `\Chem`, which is for long reactions. This environment uses `amsmath multiline` environments which allow the use of `\\` to indicate where the equation should be broken. In this reaction, the line will be broken following the reaction arrow (`->` in the code).

```

\Chem[rxn:secondrxn]{[(\cmath{(2+\delta)}Se \cdot \ce{Cr}
\cdot \ce{Cu} \cdot \ce{Cr} \cdot \ce{\cmath{(2+\delta)}Se})] ->
[SI{600}{\celsius}][\text{amorphous melt}]\ CuCr2Se4
\cmath{(\text{Fd3m, } \langle 111\rangle_{SL} )} + Se ^ }

```

`\chemarray` The `\chemarray` environment is for multiple equations that are desired to have a single reference number as in multistep reactions. Like `\Chem`, the `\` argument is used to separate lines but the `&` command can also be used to define alignment points within each equation. The `{r1}` argument indicates the alignment of each column created by the `&` commands. In this case right justification for the left hand column and left justification for the right column.

```

\chemarray[rxn:thirdrxn]{r1}{CuCl + 2CrCl3 + OLA \text{(excess)}
&->[\ce{Ar}][SI{150}{\celsius} CuCr(OLA)_x\
Se + OLA \text{(excess)} &->[\ce{Ar}][SI{330}{\celsius}
Se(OLA)_x\reactiontag\
CuCr(OLA)_x + Se(OLA)_x &->[\ce{Ar},\ SI{200}{\celsius},\
SI{2}{\hour}][\ce{Ar},\ SI{200}{\celsius},\ SIrange{0.5}{2}{\hour}]
\spinel\ce{(OLA)_x}

```

7 Manuscript organization

It is suggested that you use some scheme for breaking up your document both for ease of editing and for debugging purposes. The method that has been suggested in the past is to break up the manuscript into a header or root file and a series of dependent tex files that contain one chapter each contained in a directory folder. These dependent tex files can then be included or excluded by using `\include{}` commands. `uothesis` is set up to support this method of working. The inclusion of the `"\% !TEX root = <path to root file>"` command will aid in this. The manuscript header example provided demonstrates one possible scheme for splitting of documents. The different components of the header and will be provided in the next section.

7.1 Manuscript header example

```

\documentclass[dissertation,justified,copyright,draftimages,final,numbers,sort&compress
gsmodern]{uothesis}

\usepackage[english,UKenglish]{babel}
\input{custom_cmds.tex}

THEESIS FRONT MATTER

TITLES.
\covertitle{Document Title As it will appear on\ the cover page}
\abstracttitle{Document Title: As it will appear on the abstract page}

AUTHOR
\author{Your Name Here}

DEPARTMENT
\narrowdepartment{Short Dept. Name}

```

```
\department{Full name of department}
```

DEGREE INFORMATION

```
\degreetype{Doctor of Philosophy}
```

```
\degreemonth{Month}
```

```
\degreeyear{XXXX}
```

COMMITTEE INFORMATION

```
\advisor{Advisor's name}
```

```
\chair{Chair's name}
```

```
\committee{Member 1 & Inside\\
```

```
Member 2 & Inside\\
```

```
Member 3 & Outside\\
```

```
Member 4 & Honorary\\}
```

```
\graddean{Richard Linton}
```

CURRICULUM VITAE

```
\include{thesis_cv}
```

ACKNOWLEDGEMENTS

```
\include{thesis_acknowledgements}
```

DEDICATION (optional)

```
\include{thesis_dedication}
```

ABSTRACT

```
\include{thesis_abstract}
```

Main Document

```
\begin{document}
```

```
\maketitle
```

CHAPTERS

```
\include{introduction}
```

```
\include{chapter_2}
```

APPENDICES

```
\appendix
```

```
\include{tappendix_1}
```

REFERENCES

```
\bibliographystyle{unsrnat}
```

```
\bibliography{bib}
```

```
\end{document}
```

Note that the various components of the document are kept separate with `\include` commands. The exception is the `\input` command used for the `custom_cmds.tex`. The difference comes from the fact that `\input` is treated as part of the header file itself and is processed in line with the rest of the code. The `\import` command takes the output of the target file and adds that, resulting in pages breaks after each `\include`. This is handy, as the style manual requires that each chapter starts on a new page.

8 Manuscript meta-data

Please note that in all cases the below macro's are *macro's* and not *environments*. As an example, most L^AT_EX classes have a `\begin{abstract}... \end{abstract}` environment that is used to handle the abstract text. This is not the case with this class, the method used for handling the front-matter requires that these elements be passed to L^AT_EX as strings in the macro's: `\abstract{...}`.

8.1 Main information

<code>\covertitle</code>	<code>\covertitle{}</code> is the title that will appear on the title page of the document. It requires hard coding of the line breaks, using <code>"\"</code> , to comply with the inverted pyramid style of the graduate school ³ .
<code>\abstracttitle</code>	<code>\abstracttitle{}</code> is the title form for anywhere the title appears as in line text. Do NOT use line breaks in the abstract title.
<code>\author</code>	The full name of the author as it appears on the UO records.
<code>\narrowdepartment</code>	Some departments have an officially designated "short" name. If you are in one of these departments, this should go here and will be used in the appropriate locations in the document.
<code>\department</code>	This is the official name of the students department.
<code>\degreetype</code>	Take the abbreviation of the degree that the document is for and expand it to its full name, e.g. Doctor of Philosophy, Master of Arts, Science, etc.
<code>\degreemonth</code>	Month of graduation, either December, March, June, or August.
<code>\degreeyear</code>	The year that the dissertation or thesis will be defended.
<code>\advisor</code>	Full name of the research advisor
<code>\chair</code>	Full name of the committee chair
<code>\cochair</code>	Full name of the committee cochair, if applicable.
<code>\committee</code>	A list of the examining committee following the form: " <code>\langle full name \rangle & \langle member type \rangle \\</code> " (see example below). This list can be of arbitrary length and is formatted using a table. <pre>\committee{Dr. Person 1 & Member \\ Dr. Person 2 & Member \\ Dr. Person 3 & Outside Member \\ Dr. Person 4 & Honorary Member \\}</pre>
<code>\graddean</code>	The full name of the current dean of the University of Oregon Graduate School.

8.2 Chapter-like meta-data

Chapter-like meta-data are large blocks of text. These can be placed in the header file or they can be replaced with `\include{}` arguments and kept elsewhere to keep the header compact. The example header uses the latter option.

<code>\abstract</code>	Fully formatted abstract, as you turned in to the University of Oregon Graduate School. There are size restrictions placed on this document, 350 words and 150 words for the dissertation and the thesis respectively ⁴
<code>\acknowledge</code>	Optional, the style guide ⁵ indicates that this should be no more than 2 pages.
<code>\dedication</code>	Optional, small text block.

³Thesis and Dissertation Style and Policy Manual (v. Fall 2010), Pg. 22

⁴Thesis and Dissertation Style and Policy Manual (v. Fall 2010), Pg. 24

⁵Thesis and Dissertation Style and Policy Manual (v. Fall 2010), Pg. 25

8.3 The Curriculum Vitae

<code>\birthplace</code>	The birth place of the author
<code>\birthday</code>	author's birthday
<code>\school</code>	List of the schools attended by the author, with their city and state of location. Each school is on its own <code>\school{}</code> entry: <pre>\school{University of Somewhere, City, State} \school{University of Somewhere Else, City, State} \school{A State School, City, State}</pre>
<code>\degree</code>	List of the education of the author. Each degree has its own <code>\degree{}</code> entry. Each entry should be formatted so: $\langle full\ degree\ name \rangle$ in $\langle field \rangle$, $\langle year \rangle$, $\langle school\ name \rangle$. An example is below: <pre>\degree{Doctor of Philosophy in submersible basketry, 2010, University of Somewhere} \degree{Master of Something in something important, 2005, University of Somewhere Else} \degree{Bachelor of Something in something completely different, 2002, A State School.}</pre>
<code>\interests</code>	A comma delimited list of interests.
<code>\position</code>	Work history related to the authors research, as with <code>\school{}</code> and <code>\degree{}</code> , one entry per macro call.
<code>\award</code>	Awards and honors, one per call to the macro as with <code>\school{}</code> , <code>\degree{}</code> , and <code>\position{}</code> .
<code>\publication</code>	This section should be formatted the same way as <code>\schools{}</code> , etc. The actual entries must be formatted <i>exactly</i> the same as the References Cited section of the document. The easiest way to do this is to take a bibtex file with the authors publications, and create a .bib file for that using the same bibtex style and then copy and pasting it into this section each <code>\bibitem{}</code> being placed inside a <code>\publication{}</code> macro call ⁶ . Bibdesk will do this by using one of the optional copy formats under file as should JabRef.

9 Trouble Shooting and FAQ's

First, every attempt has been made to make this package as general and stable as is possible. That said, bugs happen so please report them. *Before* reporting them however, there are somethings that you can do to trouble shoot. It is suggested that you try to answer each of these questions yourself before you contact the maintainer:

- What does your compile log say? Are there any errors?
- Are there any errors in your `BIBTEX`compile log?
- Can you replicate the problem with a minimal example, i.e. A basic code chunk in a chapter with your header?
- Can you typeset just the front-matter (abstract, cv, etc.)?

⁶Yes, this is a little redundant, but it was done this way to avoid any potential conflicts with `BIBTEX`

- Do you have any extra packages installed?
- Have you checked to see if your problem is caused by a specific package or combination of packages?
- Are you calling any packages that are already called by the class (section 3 of this document)?

10 Implementation

10.1 Preamble

First comes the preliminary declarations, the L^AT_EX version that is needed, what the class file provides, etc.

```
1 \*class
2 \ProvidesClass{uothesis} [2010/04/10 v2.5.5 Submission to
3 University of Oregon Graduate School]
```

Next, we print out some identifying text in the output window.

```
4 \typeout{UO Thesis Class}
5 \typeout{}
6 \typeout{Based on the UO Thesis macros by Bart Massey, et al.}
7 \typeout{Currently maintained by Michael D. Anderson}
8 \typeout{Accepted by the University of Oregon Graduate School}
9 \typeout{for general use with Masters Thesis <date goes here>}
10 \typeout{Accepted by the University of Oregon Graduate School}
11 \typeout{for general use with PhD Dissertations <date goes here>}
12 \typeout{}
```

And then list the files being called by the .tex file.

```
13 \listfiles
```

Here we declare the draft option flags and conditionals for the code.

```
14 \newif\ifthesis
15 \newif\ifdraftcopy
16 \newif\ifcommitteedraft
17 \newif\iflatedraft
18 \newif\ifdraftimage
19 \newif\ifdraft
20 \newif\iffinal
21 \newif\ifsc
22 \newif\iflipsum
23 \newif\ifjustified
24 \newif\ifamstex
25 \newif\ifchem
26 \newif\ifbound
27 \newif\ifnatbib
28 \newif\ifnotables
29 \newif\ifnofigures
30 \newif\if@dissertation
31 \newif\if@copyright
32 \newif\if@gsmmodern
33 \newif\if@numsections
34 \newif\if@contnumb
35 \newif\if@draftimage
```

Now we declare the class options and assign the flags for each option.

```
36 \DeclareOption{dissertation}{\@dissertationtrue\thesistrue\natbibtrue}
37 \DeclareOption{msthesis}{\@dissertationfalse\thesistrue}
38 \DeclareOption{draftimages}{\draftimagetrue\PassOptionsToPackage{draft}{graphicx}}
39 \DeclareOption{draftcopy}{\drafttrue\draftcopytrue\boundtrue}
40 \DeclareOption{committeedraft}{\drafttrue\committeedrafttrue}
```

```

41 \DeclareOption{latedraft}{\drafttrue\latedrafttrue}
42 \DeclareOption{copyright}{\@copyrighttrue}
43 \DeclareOption{gsmodern}{\@gsmodernttrue}
44 \DeclareOption{numsections}{\@numsectionstrue}
45 \DeclareOption{amstex}{\amstextrue}
46 \DeclareOption{chemistry}{\chemtrue\amstextrue}
47 \DeclareOption{smallcaps}{\sctrue}
48 \DeclareOption{justified}{\justifiedtrue}
49 \DeclareOption{nofigures}{\nofigurestrue}
50 \DeclareOption{notables}{\notablestrue}
51 \DeclareOption{cheqns}{\}
52 \DeclareOption{final}{\draftcopyfalse\draftimagefalse}
53 \committeedraftfalse\latedraftfalse\finaltrue}
54 \DeclareOption{lipsum}{\lipsumtrue}
55 \DeclareOption{bound}{\boundtrue}
56 \DeclareOption{natbib}{\natbibtrue}
57 \DeclareOption*{\PassOptionsToPackage{\CurrentOption}{natbib}}

```

Finally, we process the options.

```
58 \ProcessOptions
```

Now we check that a document type has been indicated in the .tex file.

```

59 \ifthesis\else
60 \typeout{warning: Neither msthesis nor dissertation specified}
61 \fi

```

If the bound option is indicated in the .tex file, we need to warn the user.

```

62 \ifbound
63 \typeout{PAGE FORMAT CHANGED FOR BINDING AND PRINTING}
64 \typeout{This format DOES NOT COMPLY with University of Oregon Guidelines}
65 \typeout{For personal use only!}
66 \fi

```

Now we pass options to the report class primitive based on the options declared in the .tex file.

```

67 \iflatedraft\PassOptionsToClass{12pt,draft}{report}\fi
68 \ifcommitteedraft\PassOptionsToClass{12pt,draft}{report}\fi
69 \ifdraftcopy\PassOptionsToClass{10pt,draft}{report}
70 \PassOptionsToClass{draft}{todonotes}\fi
71 \iffinal
72 \ifbound
73 \PassOptionsToClass{12pt,twoside}{report}
74 \else
75 \PassOptionsToClass{12pt}{report}
76 \fi\fi

```

Now we load the L^AT_EXreport class primitive.

```
77 \LoadClass{report}
```

10.2 Required Packages

Call the required packages for uothesis.

```

78 \RequirePackage{float}
79 \RequirePackage{subfig}

```

```

80 \RequirePackage[dvipsnames]{xcolor}
81 \RequirePackage{graphicx}
82 \RequirePackage{setspace}
83 \RequirePackage{xspace}
84 \RequirePackage[left,pagewise]{lineno}
85 \RequirePackage{layouts}
86 \RequirePackage[colorinlistoftodos]{todonotes}
87 \RequirePackage{ragged2e}
88 \captionsetup{labelsep=space}
89 \setlength\RaggedRightRightskip{0pt plus 1cm}
90 \setlength\RaggedRightParindent{0.4in}

```

10.3 Document-wide Macros and Options

package options conditionals (document wide)

- chem** Here we define the result of calling the chemistry option. We call `chemstyle` and `mhchem`.
- ```

91 \ifchem
92 \RequirePackage[version=3]{mhchem}
93 \fi

```
- amstex** call `amstex` packages if option enabled
- ```

94 \ifamstex
95 \RequirePackage{amsmath,amsthm,amssymb}
96 \fi

```
- lipsum** call `lipsum` package if option enabled
- ```

97 \iflipsum
98 \RequirePackage{lipsum}
99 \fi

```
- natbib** call `natbib` package if enabled, which is the default setting
- ```

100 \ifnatbib
101 \RequirePackage{natbib}
102 \fi

```

10.3.1 Draft Only Macros and Options

- draftwatermark** create draft watermark
- ```

103 \ifdraft
104 \RequirePackage{draftwatermark}
105 \newcommand{\watermark}[5]{\SetWatermarkAngle{#1}
106 \SetWatermarkLightness{#2}
107 \SetWatermarkFontSize{#3}
108 \SetWatermarkScale{#4}
109 \SetWatermarkText{\uppercase{#5}}}
110 \ifdraftcopy\watermark{45}{0.95}{5cm}{2.5}{Draft}\fi
111 \ifcommitteedraft\watermark{45}{0.95}{5cm}{2.25}{Committee Draft}\fi
112 \iflatedraft\watermark{45}{0.95}{5cm}{2.5}{Review Proof}\fi
113 \fi

```

Here we create the editing markup commands. These are based off of the `\todo` command.

```

114 \ifdraftcopy
115 \RequirePackage[colorlinks=true]{hyperref}

\ednote Create \ednote command.
116 \newcounter{ednote}
117 \@addtoreset{ednote}{chapter}
118 \newcommand{\ednote}[1]{\stepcounter{ednote}\todo[color=blue!40,size=\scriptsize,
119 caption={NOTE \arabic{chapter}.\arabic{ednote}: #1},noprepend]%
120 {\bf\hfil N.\arabic{chapter}.\arabic{ednote}\hfil}%
121 {\textbf{\textcolor{blue}{[N.\arabic{chapter}.\arabic{ednote}]}}}}

\here Create \here command.
122 \newcommand{\here}{\textcolor{BrickRed}{\\blacksquare}\todo[color=red!40,
123 size=\small,caption={\uppercase{Incomplete Section: Section \arabic{chapter}.
124 \arabic{section}}}}{\hfil\textbf{\uppercase{Incomplete Section}}\hfil}}

\needref create \needref command.
125 \newcounter{citation}
126 \newcounter{citationbychapter}
127 \@addtoreset{citationbychapter}{chapter}
128 \newcommand{\needref}[1]{\stepcounter{citation}\stepcounter{citationbychapter}\todo[colo
129 size=\scriptsize,caption={CITE \arabic{chapter}.\arabic{citation}: #1]}
130 {\bf C.\arabic{chapter}.\arabic{citation}}
131 {\textbf{\textcolor{ForestGreen}{[C.\arabic{chapter}.\arabic{citation}]}}}}

\rfmk create \rfmk command.
132 \newcommand{\rfmk}{\stepcounter{citation}\stepcounter{citationbychapter}
133 {\addcontentsline{tdo}{todo}{\protect\colorbox{green!40}{\textcolor{green!40}{o}}\ Missing
134 {\textcolor{red}{\ensuremath{\text{[REF: C.\arabic{chapter}.\arabic{citationbychapter}]}}}}}}

If the draft mode is not enabled we need to remove commands so that they don't
cause errors. This is done by setting them to be empty if \ifdraft comes back as
false.
135 \else
136 \newcommand{\ednote}[1]{}
137 \newcommand{\here}{}
138 \newcommand{\needref}{}
139 \newcounter{citation}
140 \newcommand{\rfmk}{\stepcounter{citation}{\textcolor{red}{\cite{dummy_\arabic{citation}}}}}}
141 \fi

```

## 10.4 General Macros and Environments

`\cleanbreak` A new command for clean line breaks in TOC, TOF, TOT. The version of the command paired with the `RaggedRight` option doesn't work particularly well. It is intended more for using the L<sup>A</sup>T<sub>E</sub>X default of having a full justification in the text block.

```

142 \newcommand{\cleanbreak}{
143 \ifjustified
144 \\ \hfil

```

```

145 \else
146 \newline
147 \fi}

```

new chemical equation environments. (modified from mhchem documentation, pg. 10-11) create reaction counter

**reaction** Modify the reaction counter to fit formatting requirements.

```

148 \ifchem
149 \newcounter{reaction}
150 \renewcommand\thereaction{Formula\ \thechapter.\arabic{reaction}}
151 \@addtoreset{reaction}{chapter}
create new reaction tag
152 \newcommand\reactiontag{\refstepcounter{reaction}\tag{\thereaction}}

```

**\chem** Create new chem environment (doesn't use line breaks)

```

153 \newcommand{\chem}[2] [] {\begin{equation}\cee{#2}%
154 \ifx\@empty#1\@empty\else\label{#1}\fi\reactiontag\end{equation}}

```

**\chemarray** Create new chemarray environment (allows for multiple equations with one reference and number). Requires `\reactiontag` to be placed explicitly in the equation.

```

155 \newcommand{\chemarray}[3] [] {\begin{equation}\begin{array}{#2}\cee{#3}%
156 \end{array}\ifx\@empty#1\@empty\else\label{#1}\fi\reactiontag\end{equation}}

```

**\Chem** Create new Chem environment (enables line breaks)

```

157 \newcommand{\Chem}[2] [] {\begin{multline}\cee{#2}%
158 \ifx\@empty#1\@empty\else\label{#1}\fi\reactiontag\end{multline}}
159 \fi
160 \newcommand*{\cst@xspace}{\expandafter\xspace}
161 \newcommand*{\cst@latin}{\expandafter\emph}
162 \newcommand*{\etc}{\@ifnextchar.{\cst@etc}{\cst@etc.\cst@xspace}}
163 \newcommand*{\invacuo}{\cst@latin{in vacuo}\cst@xspace}
164 \newcommand*{\etal}{\@ifnextchar.{\cst@etal}{\cst@etal.\cst@xspace}}
165 \newcommand*{\eg}{\cst@eg.}
166 \newcommand*{\ie}{\cst@ie.}
167 \newcommand*{\cst@etal}{\cst@latin{et-al}}
168 \newcommand*{\cst@etc}{\cst@latin{etc}}
169 \newcommand*{\cst@ie}{\cst@latin{i.e}\spacefactor999\relax}}
170 \newcommand*{\cst@eg}{\cst@latin{e.g}\spacefactor999\relax}}

```

## 10.5 Internal Variables and Commands

**\normalspace** Define a single spacing environment.

```

171 \newenvironment{normalspace}{\begin{singlespacing}}{\end{singlespacing}}

```

**\@mydouble** Define special double space environment.

```

172 \def\@mydouble{\endsinglespace\large\normalsize\setstretch{1.7}}

```

**\@mysinglespace** Define second special single space environment.

```

173 \def\@mysingle{\singlespace\large\normalsize\setstretch{1.7}}

```



```

\@mysinglespace Define third special single space environment.
174 \def\@mybibsingl{\singlespace\large\normalsize\setstretch{1}}

\@draftdate Define draftdate: YYYY/MM/DD
175 \def\@draftdate{{\the\year/\two@digits{\the\month}/\two@digits{\the\day}}}

\@longdraftdate Define longdraftdate: Day, Month, YYYY
176 \def\@longdraftdate{\today}

Define thesis and dissertation strings for abstract page
177 \if@dissertation
178 \ifdraftcopy
179 \gdef\@cappapertype{Dissertation Draft}
180 \else
181 \gdef\@cappapertype{Dissertation}
182 \fi
183 \else
184 \ifdraftcopy
185 \gdef\@cappapertype{Thesis Draft}
186 \else
187 \gdef\@cappapertype{Thesis}
188 \fi
189 \fi
190 \xdef\@upperpapertype{\uppercase{\@cappapertype}}
191 \xdef\@papertype{\lowercase{\@cappapertype}}

\@draftstring Define draft copy header string.
192 \ifdraftcopy
193 \def\@draftstring{{\sc Draft of} \@draftdate}}
194 \else
195 \def\@draftstring{}
196 \fi

\@disclaimer Define draft copy disclaimer for title pages.
197 \def\@disclaimer{
198 \ifcommitteedraft\textcolor{red}{\textbf{\uppercase{committee draft}}}\fi
199 \iflatedraft\textcolor{red}{\textbf{\uppercase{review proof}}}\fi
200 \ifdraftcopy\textcolor{red}{\textbf{\uppercase{editing draft}}}\fi\
201 \vspace*{0.5in}
202 \textcolor{red}{\textbf{\uppercase{This is a draft copy for review
203 and editing purposes only!}}}}
204 \vspace*{10pt}
205 \setlength\fbboxsep{10pt}
206 \setlength\fbboxrule{2pt}
207 \framebox[1\columnwidth]{\parbox{0.95\columnwidth}{\textcolor{black}
208 {\textbf{This draft format in no way complies with the University
209 of Oregon Style Graduate School Style Guide for theses or dissertations.
210 This draft may employ 10 point fonts for paper conservation, line numbering
211 for ease of editing, or watermarking and editing notations; all of which violate
212 the Graduate School Style Guide for final documents. See the uothesis.cls
213 documentation for instructions on producing a properly formatted document.}}}}

```

Define bound disclaimer for copyright page

```
214 \def\@bounddisclaimer{%
215 \parbox{0.75\textwidth}{\centering
216 \begin{spacing}{0.5}
217 {\tiny This document is for the the personal use of the author and does not comply
218 with the University of Oregon Graduate School. Please contact the University
219 of Oregon Graduate School for information on how to obtain an official copy
220 of this document.}
221 \end{spacing}}\
222 \vfill\LaTeX
223 }
```

## 10.6 User Accessible Variables and Commands

### 10.6.1 Titles

`\covertitle` Define cover title string

```
224 \def\covertitle#1{\gdef\@covertitle{#1}\gdef\@uppercovertitle{\begin{doublespace}
\uppercase{#1} \end{doublespace}}}
```

`\abstracttitle` Define abstract title string

```
225 \def\abstracttitle#1{\gdef\@abstracttitle{#1}\gdef\@upperabstracttitle{\uppercase{#1}}}
```

### 10.6.2 Author Strings

`\author` Define author command

```
226 \def\author#1{\gdef\@author{#1}\gdef\@upperauthor{\uppercase{#1}}}
```

`\narrowauthor` Define narrow author

```
227 \def\narrowauthor#1{\gdef\@narrowauthor{#1}\gdef\@uppernarrowauthor{\uppercase{#1}}}
```

### 10.6.3 School Information and Examination Committee

`\department` Define department

```
228 \def\department#1{\gdef\@department{#1}}
```

`\narrowdepartment` Define narrow department

```
229 \def\narrowdepartment#1{\gdef\@narrowdepartment{#1}}
```

`\advisor` Define advisor

```
230 \def\advisor#1{\gdef\@advisor{#1}}
```

`\chair` Define chair

```
231 \def\chair#1{\gdef\@chair{#1}}
```

`\cochair` Define cochair for disertation

```
232 \newif\if@cochair
233 \if@dissertation
234 \def\cochair#1{\gdef\@cochair{#1}\@cochairtrue}
235 %Define the committee
236 \def\committee#1{\gdef\@committee{#1}}
237 \fi
```

`\graddean` Define the dean  
 238 `\def\graddean#1{\gdef\@graddean{#1}}`

#### 10.6.4 Degree and Graduation

`\degreetype` Define degree type  
 239 `\def\degreetype#1{\gdef\@degree{#1}}`

`\degreemonth` Define degree month  
 240 `\def\degreemonth#1{\gdef\@degreemonth{#1}}`

`\degreeyear` Define degree year  
 241 `\def\degreeyear#1{\gdef\thedegreeyear{#1}}`

#### 10.6.5 Abstract, Dedication, etc. . .

`\abstract` Define abstract  
 242 `\long\def\abstract#1{\gdef\@abstract{#1}}`

`\dedication` Define dedication  
 243 `\newif\if@dedication`  
 244 `\long\def\dedication#1{\gdef\@dedication{#1}\@dedicationtrue}`

`\acknowledge` Define acknowledgement  
 245 `\long\def\acknowledge#1{\gdef\@acknowledge{#1}}`

#### 10.6.6 Signature Page Internal Commands

`\@optional` Define the optional argument: c.f. David Solomon’s “The Advanced TeXbook”, ISBN: 0-387-94556-3, p. 120-150. This macro is used to expand a name iff it is defined. Note that it is invoked as `\@optional{foo}` to expand `\foo`.  
 246 `\def\@optional#1{\let\what=\expandafter\csname #1`  
 247 `\endcsname\ifx\what\relax\else\what\fi}`

`\sigline`, `\Sigline` Define signature line commands  
 248 `\newcommand{\@sigline}[2]{Approved: \rule{#1}{.4pt}\*[-0.25\baselineskip]{#2}}`  
 249 `\newcommand{\@Sigline}[1]{Approved: \hrule\vspace*{-\parskip}\vspace*{4pt}{#1}}`

#### 10.6.7 CV Internal Commands

`\cvoneline` Define single line environment for CV  
 250 `\def\cvoneline#1#2{ \*[\baselineskip] {#1}: {#2}}`

`\cvmultiline` Define multiline environment for CV  
 251 `\def\cvmultiline#1#2{`  
 252 `\par\vspace{1.5\baselineskip}\noindent`  
 253 `{#1}:\*[\baselineskip]\nopagebreak`  
 254 `\indent\parbox[b]{5in}{#2}}`

`\@cvhangindent` define CV hanging indent  
 255 `\newlength{\@cvhangindent}`

Set the hanging indent length and deal with paragraph alignments within the CV.

```
256 \setlength{\cvhangindent}{\parindent}
257 \addtolength{\cvhangindent}{1.5em}
258 \long\def\cvpars#1{\par #1}
259 \long\def\cvitem#1#2{\par\vspace{1.5\baselineskip}\noindent{#1}:\nopagebreak\par #2}
```

### 10.6.8 CV commands

CV Variables Define birthplace

```
\birthplace 260 \def\birthplace#1{\gdef\@birthplace{#1}}
```

\birthday Define birthday

```
261 \def\birthday#1{\gdef\@birthdate{#1}}
```

\schools Define educational history

```
262 \def\school#1{\expandafter\gdef\expandafter\@schools\expandafter{\@schools\cvpars{#1}}}
```

\degrees Define the degrees received.

```
263 \long\def\degree#1{\expandafter\gdef\expandafter\@degrees\expandafter{\@degrees\cvpars{#1}}}
```

\interests Define interests

```
264 \def\interests#1{\expandafter\gdef\expandafter\@interests\expandafter{\@interests\cvpars{#1}}}
```

\experience Define professional experience.

```
265 \def\position#1{\expandafter\gdef\expandafter\@experience\expandafter{\@experience\cvpars{#1}}}
```

\awards Define awards. (optional)

```
266 \def\award#1{\expandafter\gdef\expandafter\@awards\expandafter{\@awards\cvpars{#1}}}
```

\publications Define publications. (optional)

```
267 \def\publication#1{\expandafter\gdef\expandafter\@publications\expandafter{\@publications\cvpars{#1}}}
```

## 10.7 Preliminary page formatting, layout, and settings

Set the text spacing to a little under double spacing.

```
268 \setstretch{1.7}
```

Set a standard header size

```
269 \newcommand{\@normalheaderdims}{
```

```
270 \textheight 620pt
```

```
271 \headheight 14pt
```

```
272 \headsep 14pt}
```

Set standard page margins

```
273 \ifbound
```

```
274 \oddsidemargin 0.6in
```

```
275 \evensidemargin 0.6in
```

```
276 \textwidth 5.8in
```

```
277 \footskip 0.5in
```

```
278 \footnotesep 15pt
```

```
279 \parindent 24pt
```

```
280 \topmargin 0in
```

```

281 \else
282 \oddsidemargin 0.25in
283 \evensidemargin 0.25in
284 \textwidth 6in
285 \footskip 0.25in
286 \footnotesep 15pt
287 \parindent 24pt
288 \topmargin 0in
289 \fi
290 \@normalheaderdms

```

Set vertical space net (relative to the top of the page).

```

291 \def\@fromtopskip#1{
292 \@tempdima=#1
293 \advance\@tempdima by-1in
294 \advance\@tempdima by-\topmargin
295 \advance\@tempdima by-\headheight
296 \advance\@tempdima by-\headsep
297 \advance\@tempdima by-\baselineskip
298 \advance\@tempdima by12pt
299 \hbox to0pt{\nointerlineskip\vskip\@tempdima}
300

```

Setting section numbering for numbered and unnumbered sections. Include sections in the TOC

```

301 \setcounter{tocdepth}{1}

```

Declare a new counter for section numbers

```

302 \newcounter{@shownumdepth}

```

Show section numbers with gsmoern.

```

303 \if@gsmoern
304 \setcounter{@shownumdepth}{2}
305 \else

```

Show section numbers with numsection

```

306 \if@numsections
307 \setcounter{@shownumdepth}{2}
308 \else

```

Suppress section numbers in TOC and section headings

```

309 \setcounter{@shownumdepth}{0}
310 \setcounter{secnumdepth}{1}
311 \fi
312 \fi

```

Write the appendix count in the main aux file

```

313 \def\@emit#1{\if@files\immediate\write\@mainaux{#1}\fi}

```

Increase the hyphenation penalty to prevent hyphenation.

```

314 \hyphenpenalty=500000

```

Increase tolerance of wider word spacing in lines.

```

315 \tolerance=5000

```

Increase the widow penalties.

```

316 \widowpenalty=10000

```

Increase the orphan penalties

```
317 \clubpenalty=10000
```

Allow ragged bottom pages

```
318 \raggedbottom
```

## 10.8 The Title Page Layout

```
\@maketitlepage Define the title page
319 \def\@maketitlepage{
create a new page
320 \newpage
make the page empty
321 \thispagestyle{empty}
if draft mode start numbers here
322 \ifdraftcopy\linenumbers\fi
begin center justification
323 \begin{center}
position title start 0.25 in from top of text block
324 \vspace*{0.25in}
set line spacing to double spacing for title
325 \doublespacing
call uppercovertitle
326 \@uppercovertitle
set line spacing to single spacing
327 \singlespacing
fill to by line
328 \vfill
set by line and start new line
329 by *[\baselineskip]
call upper case author string
330 \@upperauthor\
fill to gs declaration
331 \vfil
if draft mode set disclaimer
332 \ifdraft\@disclaimer\fi\vfill
declaration to the graduate school.
333 A \@upperpapertype *[\baselineskip]
334 Presented to the \@narrowdepartment \[*
335 and the Graduate School of the
336 University of Oregon \[*
337 in partial fulfillment of the requirements \[*
338 for the degree of \[*
call degree
339 \@degree *[\baselineskip]
```

```

call degree month
340 \@degreemonth ~\thedegreeyear\\
close center justification
341 \end{center}}

```

## 10.9 The Approval Page

Define the approval signature page

`\@makeapprovepage`

```

342 \def\@makeapprovepage{
create clear page
343 \clearpage
344 \thispagestyle{plain}
place the heading.
345 \@startchapter{\@upperpapertype\ APPROVAL PAGE}
begin single spacing
346 \begin{spacing}{1}
3 ex of vertical space
347 \vspace*{3ex}
suppress indenting in the page
348 \noindent
call author string.
349 Student: \@author*[\baselineskip]
call the document title.
350 Title: \@abstracttitle*[\baselineskip]
place the GS mandated text
351 This \@papertype\ has been accepted and approved
352 in partial fulfillment of the requirements for the
353 \@degree\ degree in the \@narrowdepartment\ by:*[\baselineskip]
create a table with the names of the examining committee
354 \begin{tabular}[t]{p{2.25in} p{3.25in}}
call chair string then label
355 \@chair & Chair\\
call cochair string then label if it exists
356 \if@cochair
357 \@cochair& Co-chair\\
358 \fi
call advisor
359 \@advisor & Advisor\\
call committee string
360 \@committee\\
361 and & \\ \\
362 \@graddean & Vice President for Research & Innovation/ Dean of the Graduate School

```

```

end tabular environment
363 \end{tabular}*\[\backslashbaselineskip]
remainder of the text required by GS
364 Original approval signatures are on file with the
365 University of Oregon Graduate School.*\[\backslashbaselineskip]
degree date
366 Degree awarded \@degreemonth ~\thedegreeyear
end single spacing
367 \end{spacing}}

```

## 10.10 The Copyright Page

```

\@makecopyrightpage Define the copyright page.
368 \def\@makecopyrightpage{
begin copyright conditional
369 \ifcopyright
create clear page
370 \clearpage
371 \thispagestyle{plain}
4 in vertical space
372 \@fromtopskip{5in}
create a centered line with copyright symbol followed by degree year and author
string
373 \ifbound\else\centerline{\copyright ~\thedegreeyear ~\@author}\fi
vertical fill to bottom of the page if draft mode set disclaimer
374 \ifbound{\centering\@bounddisclaimer}\else\vfill\fi\vfil
end copyright conditional
375 \fi}

```

## 10.11 The Abstract Page

```

\@makeabstractpage Define the abstract page.
376 \def\@makeabstractpage{
create clear page
377 \clearpage
378 \pagestyle{plain}
place the heading.
379 \@startchapter{\@upperpapertype\ ABSTRACT}
begin single spacing
380 \begin{spacing}{1}
3 ex of vertical space
381 \vspace*{3ex}
suppress indenting in the page
382 \noindent

```



call author string.  
383 \@author\\*\[\baselineskip]  
call the degree type.  
384 \@degree\\*\[\baselineskip]  
call the department name  
385 \@department\\*\[\baselineskip]  
the date  
386 \@degreemonth ~\thedegreeyear\\*\[\baselineskip]  
call the document title.  
387 Title: \@abstracttitle\\*\[\baselineskip]  
388 \parbox[t]{5in}{\raggedright  
begin co-chair conditional  
389 \if@cochair  
signature lines for advisor  
390 \@sigline{3.5in}{\hspace\*{1.5in}\@advisor, Co-chair}\\*\[\baselineskip]  
signature lines for cochair.  
391 \@sigline{3.5in}{\hspace\*{1.5in}\@cochair, Co-chair}  
if no co-chair  
392 \else  
signature line for advisor.  
393 \@sigline{3.5in}{\hspace\*{1.5in}\@advisor}  
end co-chair conditional  
394 \fi}\\*\[2\baselineskip]  
395 \end{spacing}  
set text block to full justification if option is called  
396 \ifjustified\else\RaggedRight\fi  
397 \@abstract}

## 10.12 The Acknowledgments Page

\@makeackpage Define the acknowledgements page  
398 \def\@makeackpage{  
create clear page  
399 \clearpage  
400 \thispagestyle{plain}  
set the header.  
401 \@startchapter{ACKNOWLEDGEMENTS}  
vertical space  
402 \vspace\*\[\baselineskip]  
403 \par  
begin draft conditional statement  
404 \ifcommitteedraft  
print disclaimer  
405 \begin{center}\@disclaimer\end{center}

```

else
406 \else
place acknowledgments set text block to full justification if option is called
407 \ifjustified\else\RaggedRight\fi
408 \@acknowledge
begin late draft conditional statement
409 \iflatedraft
vertical fill
410 \vfill
begin center justification
411 \begin{center}
mark as review proof
412 \textcolor{red}{\textbf{\uppercase{review proof}}}\
end centering
413 \end{center}
end late draft conditional
414 \fi
end draft conditional
415 \fi}

```

### 10.13 The Dedication Page

```

\@makededpage Define the dedication page
416 \def\@makededpage{
begin dedication conditional
417 \if@dedication
create clear page
418 \clearpage
419 \thispagestyle{plain}
set page to width of dedication
420 \settowidth{\@tempdima}{\@dedication}
begin short dedication conditional
421 \ifcommitteedraft
exclude from the committee draft.
422 \setlength{\@tempdima}{0pt}
end short dedication conditional
423 \fi
begin long dedication conditional
424 \ifdim\@tempdima<\textwidth
4 in vertical space from top of page
425 \@fromtopskip{4in}
set dedication header
426 \@chapterline{

```

```

if dedication longer than 1 line of text
427 \else
3 in vertical space from top of page
428 \@fromtopskip{3in}
set dedication header
429 \@startchapter{}
end long dedication conditional
430 \fi
vertical space
431 \vspace*{\baselineskip}
end of paragraph
432 \par
begin draft conditional
433 \ifcommitteedraft
print disclaimer
434 \begin{center}\@disclaimer\end{center}
else
435 \else
begin center justification
436 \begin{center}
place the dedication...
437 \@dedication
end center justification
438 \end{center}
vertical fill to center on page
439 \vfill
begin late draft conditional
440 \iflatedraft
begin center justification
441 \begin{center}
set review proof notification
442 \textcolor{red}{\textbf{\uppercase{review proof}}}\
end center justification
443 \end{center}
end late draft conditional
444 \fi
end draft conditional
445 \fi
end dedication conditional
446 \fi}

```

## 10.14 The Curriculum Vitae

```
\@makevita Define the CV
447 \def\@makevita{
create clear page
448 \clearpage
449 \thispagestyle{plain}
place the heading.
450 \@startchapter{CURRICULUM VITAE}
begin single spacing
451 \begin{singlespacing}
3 ex of vertical space
452 \vspace*{3ex}
call author string.
453 \noindent NAME OF AUTHOR:\quad \@author \vskip\baselineskip
call birthplace string.
454 \noindent PLACE OF BIRTH:\quad \@birthplace \vskip\baselineskip
call birthday string.
455 \noindent DATE OF BIRTH:\quad \@birthdate \vskip\baselineskip
456 \everypar={\hangindent=\@cvhangindent}
call the educational history string.
457 \noindent GRADUATE AND UNDERGRADUATE SCHOOLS ATTENDED:
458 \@schools
459 \vskip \baselineskip
call the degrees string.
460 \noindent DEGREES AWARDED:
461 \@degrees
462 \vskip \baselineskip
call the interests string.
463 \noindent AREAS OF SPECIAL INTEREST:
464 \@interests
change the paragraph spacing.
465 \everypar={\parskip=0.75\baselineskip
466 \hangindent=\@cvhangindent
467 \interlinepenalty=\@M}
call the experience string.
468 \cvitem{PROFESSIONAL EXPERIENCE}{\@experience}
call the awards string.
469 \cvitem{GRANTS, AWARDS AND HONORS}{\@awards}
call the publications string.
470 \cvitem{PUBLICATIONS}{\@publications}
end the alternate paragraph spacing.
471 \par
end single spacing
472 \end{singlespacing}}
```

## 10.15 Full Draft Front Matter

`\@maketitlepages` Here we call the previously defined pages in their proper order.

```
473 \def\@maketitlepages{
set the page numbering to roman
474 \pagenumbering{roman}
call the pages
475 \@maketitlepage
476 \@makeapprovepage
477 \@makecopyrightpage
478 \@makeabstractpage
479 \@makevita
480 \@makeackpage
481 \@makededpage
begin single spacing before TOC, etc...
482 \begin{singlespacing}
adjust the formatting for the TOC's
483 \clearpage
set the page style for non-"toheadings" style TOC, LOF, LOT figures.
484 \@tableofcontents
485 \ifnofigures\else
486 \IfFileExists{\jobname.\ext@figure}{\@listoffigures}{\@starttoc{\ext@figure}}
487 \fi
488 \ifnotables\else
489 \IfFileExists{\jobname.\ext@table}{\@listoftables}{\@starttoc{\ext@table}}
490 \fi
create clear page
491 \clearpage
reset to normal header dimensions
492 \@normalheaderdims
create clear page
493 \clearpage
end single spacing
494 \end{singlespacing}}
```

## 10.16 Working Draft Front Matter

`\@makedraftcover` Here we call the previously defined pages with the exception of using the draft cover instead of the Full cover and the omission of the table of contents.

```
495 \def\@makedraftcover{
page break
496 \clearpage
blank page
497 \thispagestyle{empty}
start line numbers for drafts
498 \linenumbers
```

```

begin center justification
499 \begin{center}
02.5 in vertical space
500 \vspace*{0.25in}
call document string in large font
501 {\large \@upperpapertype}\\
begin single spacing
502 \begin{singlespacing}
call the cover title
503 {\large \@covertitle}\\
vertical space
504 \vspace*{\baselineskip}
state the draft date.
505 Draft of \@longdraftdate\\
call the author string.
506 \@author
end single spacing
507 \end{singlespacing}
end center justification
508 \end{center}
small font
509 {\small
begin single spacing
510 \begin{singlespacing}
place the abstract header
511 \begin{center}ABSTRACT\end{center}
call the abstract string.
512 {\footnotesize \par\@abstract}
vertical fill
513 \vfill
begin center justification
514 \begin{center}
suppress indenting
515 \noindent
call disclaimer
516 \@disclaimer\\
end center justification
517 \end{center}
end single spacing
518 \end{singlespacing}}
clear page
519 \clearpage}

```

## 10.17 Typeset the appropriate frontmatter

```
520 \def\maketitle{
521 \ifdraftcopy
522 \iflatedraft
523 \@maketitlepages
524 \else
525 \ifcommitteedraft
526 \@maketitlepages
527 \else
528 \@makedraftcover
529 \pagenumbering{roman}
530 \listoftodos\clearpage
531 \fi
532 \fi
533 \else
534 \@maketitlepages
535 \fi
536 \pagestyle{plain}
537 \ifjustified\else\RaggedRight\fi
538 \pagenumbering{arabic}
539 \setcounter{page}{1}}
```

## 10.18 General Heading Formatting

page headings

```
540 \def\@footlines#1{\hbox to\textwidth{#1}}
541 \ifbound
542 \def\@footer{\hfill\rm\thepage}
543 \else
544 \def\@footer{\hfil\rm\thepage\hfil}
545 \fi
```

define the toc chapter and page labels for first page

```
546 \def\ps@toheadings{
547 \def\@oddfont{\@footlines{\@footer}}
548 \def\@oddhead{ }
549 \let\@evenfont\@oddfont
550 \let\@evenhead\@oddhead}
```

define the toc, tof, and lot labels for additional pgs.

```
551 \def\ps@tocextraheadings{
552 \def\@oddfont{\@footlines{\@footer}}
553 \def\@oddhead{\hbox to\textwidth{Chapter\hfil{Page}}}}
554 \def\@evenfont\@oddfont
555 \def\@evenhead{\hbox to\textwidth{Chapter\hfil{Page}}}}
556 \textheight 620pt
557 \headheight 14pt
558 \headsep 14pt}
559 \def\ps@lofextraheadings{
560 \def\@oddfont{\@footlines{\@footer}}
561 \def\@oddhead{\hbox to\textwidth{Figure\hfil{Page}}}}
562 \def\@evenfont\@oddfont
563 \def\@evenhead{\hbox to\textwidth{Figure\hfil{Page}}}}
564 \textheight 620pt
565 \headheight 14pt
```

```

566 \headsep 14pt}
567 \def\ps@lotextraheadings{
568 \def\@oddfoot{\@footlines{\@footer}}
569 \def\@oddhead{\hbox to\textwidth{Table\hfil{Page}}}}
570 \def\@evenfoot\@oddfoot
571 \def\@evenhead{\hbox to\textwidth{Table\hfil{Page}}}}
572 \textheight 620pt
573 \headheight 14pt
574 \headsep 14pt}

```

redefine the plain page headers and footers for bound option.

```

575 \def\ps@plain{
576 \def\@oddfoot{\@footlines{\@footer}}
577 \def\@oddhead{}
578 \let\@evenfoot\@oddfoot
579 \let\@evenhead\@oddhead
580 \textheight 620pt
581 \headheight 14pt
582 \headsep 14pt}

```

### 10.18.1 TOC,TOF, etc...Headers

```

583 \def\@tableofcontents{%
584 \clearpage
585 \markboth{Chapter}{Chapter}
586 \thispagestyle{toheadings}
587 \@startchapter{TABLE OF CONTENTS}
588 \vspace*{14pt}
589 \noindent
590 \makebox[\textwidth][l]{Chapter \hfill Page}
591 \pagestyle{tocextraheadings}\@mysingle\@starttoc{toc}}
592 \def\@listoffigures{%
593 \clearpage
594 \markboth{Figure}{Figure}
595 \thispagestyle{toheadings}
596 \@startchapter{LIST OF FIGURES}
597 \vspace*{14pt}
598 \noindent
599 \makebox[\textwidth][l]{Figure \hfill Page}
600 \pagestyle{lofextraheadings}\@mydouble\@starttoc{\ext@figure}}
601 \def\@listoftables{%
602 \clearpage
603 \markboth{Table}{Table}
604 \thispagestyle{toheadings}
605 \@startchapter{LIST OF TABLES}
606 \vspace*{14pt}
607 \noindent
608 \makebox[\textwidth][l]{Table \hfill Page}
609 \pagestyle{lotextraheadings}\@mydouble\@starttoc{\ext@table}}

```

### 10.19 Table of Contents Formatting

Here we set up the formatting for the TOC, TOF, etc...

```

610 \if@gsmodern
611 \def\numberline#1{\hbox to\@tempdima{\hskip 0.75em #1\hfil}}

```



```

612 \else
613 \def\numberline#1{\hbox to\@tempdima{\hfil #1\hskip 0.75em}}
614 \fi
615 \def\@dottedtocline#1#2#3#4#5{
616 \ifnum #1>\c@tocdepth
617 \else
618 \vskip \z@ \@plus.2\p@
619 {\leftskip=#2\relax \rightskip=\@tocrmarg
620 \parfillskip=-\rightskip
621 \parindent=#2\relax \hangindent=1.5em
622 \spacespace\@afterindenttrue
623 \interlinepenalty\@M
624 \leavevmode
625 \@tempdima=#3\relax
626 \advance\leftskip by\@tempdima \null\nobreak
627 \hskip -\leftskip
628 {#4}\nobreak
629 \leaders\hbox{$\m@th
630 \mkern \@dotsep mu\hbox{.}\mkern
631 \dotsep
632 mu$}\hfill
633 \nobreak
634 \hb@xt@\@pnumwidth{\hfil\normalfont
635 \normalcolor #5}
636 \par}
637 \fi}
638 \def\@sechack{\relax}
639 \def\l@chapter#1#2{
640 \pagebreak[3]\par\vskip\baselineskip
641 \@dottedtocline{0}{0in}{0.5in}{#1}{#2}
642 \nopagebreak\par
643 \gdef\@sechack{\vskip\baselineskip\gdef\@sechack{\relax}}
644 \if@gsmodern
645 \def\l@section{\@sechack\@dottedtocline{1}{0.5in}{0.5in}}
646 \else
647 \if@numsections
648 \def\l@section{
649 \@sechack\@dottedtocline{1}{0.5in}{0.5in}}
650 \else
651 \def\l@section{
652 \@sechack\@dottedtocline{1}{0.75in}{0.5in}}
653 \fi
654 \fi
655 \def\l@figure{\@dottedtocline{0}{0in}{0.5in}}%
656 \def\l@table{\@dottedtocline{0}{0in}{0.5in}}

```

## 10.20 The Chapter Headings Formatting

\@chapapp Here we define the chapter heading format and all the conditionals for appendices etc. . .

```

657 \def\@chapapp{CHAPTER}
658 \renewcommand{\thechapter}{\arabic{chapter}}
659 \def\@makechapterhead#1{{
660 \centering

```

```

661 \ifnum \c@secnumdepth>\m@ne
662 \@chapapp{}
663 \if@appendices
664 \ifnum 1=\aux@appendices
665 \ifnum 1=\c@chapter\else
666 \typeout{warning:
667 extra appendices; rerun LaTeX}
668 \thechapter
669 \fi
670 \else
671 \thechapter
672 \fi
673 \else
674 \Roman{chapter}
675 \fi
676 \par
677 \vskip 2ex
678 \fi
679 \ifsc\textsc{#1}\else\uppercase{#1}\fi\par\nopagebreak\vskip 4ex}}
680 \def\@makeschapterhead#1{{
681 \@startchapter{\ifsc\textsc{#1}\else\uppercase{#1}\fi}\par
682 \nopagebreak\vskip 4ex}}
683 \def\chapter{
684 \clearpage\global\@topnum\z@
685 \@afterindenttrue\secdef\@chapter\@schapter}
686 \def\@chapter[#1]#2{
687 \stepcounter{chapter}
688 \if@appendices
689 \protected@edef\@currentlabel
690 {\csname p@chapter\endcsname\Alph{chapter}}
691 \else
692 \protected@edef\@currentlabel
693 {\csname p@chapter\endcsname\Roman{chapter}}
694 \fi
695 \typeout{[#1]}
696 \if@appendices
697 \ifnum\c@chapter=1
698 \ifnum\aux@appendices=1
699 \addtocontents{toc}{
700 \protect\pagebreak[3]\protect\vspace{3ex}
701 \protect\nopagebreak\protect\noindent
702 {}}\protect\nopagebreak}
703 \else
704 \addtocontents{toc}{
705 \protect\pagebreak[3]\protect\vspace{3ex}
706 \protect\nopagebreak\protect\noindent
707 {APPENDICES}}\protect\nopagebreak}
708 \fi
709 \fi
710 \fi
711 \@emit{\string\global\string\aux@appendices=\number\c@chapter}
712 \ifnum \c@secnumdepth >\m@ne
713 \if@appendices
714 \ifnum\aux@appendices=1

```

```

715 \addcontentsline{toc}{chapter}
716 {APPENDIX:
717 \ifsc\textsc{#1}\else\uppercase{#1}\fi}
718 \else\ifnum\aux@appendices > 1
719 \addcontentsline{toc}{chapter}
720 {\protect\number@appendix{\number\c@chapter
721 }\Alph{chapter}.}
722 \ifsc\textsc{#1}\else\uppercase{#1}\fi}
723 \fi\fi
724 \else
725 \addcontentsline{toc}{chapter}
726 {\protect\numberline{\Roman{chapter}.}\ifsc\textsc{#1}
727 \else\uppercase{#1}\fi}
728 \fi
729 \fi
730 \chaptermark{\ifsc\textsc{#1}\else\uppercase{#1}\fi.}
731 \if@twocolumn
732 \@topnewpage[\@makechapterhead{\ifsc\textsc{#2}
733 \else\uppercase{#2}\fi}]
734 \else
735 \@makechapterhead{\ifsc\textsc{#2}\else\uppercase{#2}\fi}
736 \@afterheading
737 \fi}
738 \def\@schapter#1{
739 \if@twocolumn
740 \@topnewpage[\@makeschapterhead{\ifsc\textsc{#1}\else
741 \uppercase{#1}\fi}]
742 \else
743 \@makeschapterhead{\ifsc\textsc{#1}\else\uppercase{#1}\fi}
744 \@afterheading
745 \fi}
746 \def\chapter{
747 \clearpage\global\@topnum\z@
748 \@afterindenttrue \secdef\@chapter\@schapter}
749 \def\@chapterline#1{\centerline{#1}}
750 \def\@startchapter#1{\@chapterline{#1}}

```

## 10.21 Section Headings formatting

`\@underbar` Here we define the code for a package specific underlining environment.

```
751 \def\@underbar#1{{\setbox0=\hbox{#1}\dp0=0pt\underline{\box0}}}
```

`\@startsection` Here we define the section command with all its associated conditionals.

```

752 \def\@startsection#1#2#3#4#5#6{\if@noskipsec \leavevmode \fi
753 \par \@tempkipa #4\relax
754 \@afterindenttrue
755 \ifdim \@tempkipa <\z@ \@tempkipa -\@tempkipa \@afterindentfalse\fi
756 \if@nobreak
757 \everypar{}
758 \else
759 \addpenalty{\@secpenalty}\addvspace{\@tempkipa}
760 \fi
761 \@ifstar{\@ssect{#2}{#3}{#4}{#5}{#6}}{\@dblarg{

```

```

762 \@sect{#1}{#2}{#3}{#4}{#5}{#6}}}}
763 \def\@sect#1#2#3#4#5#6[#7]#8{
764 \if@gsmodern
765 \refstepcounter{#1}
766 \edef\@svsec{\csname the#1\endcsname~~}
767 \else
768 \if@numsections
769 \refstepcounter{#1}
770 \edef\@svsec{\csname the#1\endcsname~~}
771 \else
772 \ifnum #2>\c@shownumdepth
773 \def\@svsec{}
774 \else
775 \edef\@svsec{\csname the#1\endcsname\hskip 1em }
776 \fi
777 \ifnum #2>\c@secnumdepth\else\refstepcounter{#1}\fi
778 \fi
779 \fi
780 \@tempskipa #5\relax
781 \ifdim \@tempskipa>\z@
782 \if@gsmodern
783 \begingroup
784 \@hangfrom{\bf#6\relax\hskip #3\relax}{\bf\@svsec{#8}}
785 \interlinepenalty \@M
786 \endgroup
787 \else
788 \if@numsections
789 \begingroup #6\relax
790 \@hangfrom{#6\relax\hskip #3\relax}{
791 \ifnum #2=1 \bf\else
792 \ifnum #2=3 \it\else\fi\fi
793 \interlinepenalty \@M
794 \ifnum #2=1 \@svsec{#8}\else
795 \ifnum #2=2 \underbar{#8}\else#8\fi\fi
796 \par}
797 \interlinepenalty \@M
798 \endgroup
799 \else
800 \begingroup #6\relax
801 \@hangfrom{\hskip #3\relax\@svsec}{
802 \ifnum #2=1 \bf\else
803 \ifnum #2=2 \it\else\fi\fi
804 \interlinepenalty \@M
805 \ifnum #2=3 \underbar{#8} \else #8 \fi
806 \par}
807 \endgroup
808 \fi
809 \fi
810 \csname #1mark\endcsname{#7}\addcontentsline{toc}{#1}{
811 \ifnum #2>\c@shownumdepth
812 \else
813 \protect\numberline{\csname the#1\endcsname}
814 \fi#7}
815 \else

```

```

816 \def\@svsechd{#6\hskip #3\@svsec #8
817 \csname #1mark\endcsname{#7}\addcontentsline{toc}{#1}{
818 \ifnum #2>\c@%shownumdepth
819 \else
820 \protect\numberline{\csname the#1\endcsname}
821 \fi#7}}
822 \fi
823 \@xsect{#5}}
824 \def\@sssect#1#2#3#4#5#6{\@tempskipa #4\relax
825 \ifdim \@tempskipa>\z@
826 \begingroup #5\@hangfrom{\hskip #2}{\interlinepenalty \@M
827 \ifodd #1
828 \ifnum #1 >3 \@underbar{#6} \hfil
829 \else
830 \underbar{#6}
831 \fi
832 \else
833 #6
834 \fi \par}\endgroup
835 \else
836 \def\@svsechd{#5\hskip #2\relax {#6}}
837 \fi
838 \@xsect{#4}}

```

### 10.21.1 Numbering Hierarchies

\section Here we define the numbering hierarchy for the various numbering modes.

```

839 \if@gsmodern
gsmodern sets hierarchy to be numbered C.sec.sub.sub.s
840 \def\section{\@startsection{section}{1}{\z@}{3ex}{2ex}{}}
841 \renewcommand{\thesection}{\thechapter.\arabic{section}.}
842 \def\subsection{\@startsection{subsection}{2}{\z@}{3ex}{2ex}{}}
843 \renewcommand{\thesubsection}{\thesection\arabic{subsection}.}
844 \def\subsubsection{\@startsection{subsubsection}{3}{\z@}{3ex}{2ex}{}}
845 \renewcommand{\thesubsubsection}{\thesubsection\arabic{subsubsection}.}
846 \renewcommand{\theequation}{Equation\ \thechapter.\arabic{equation}.}
847 \else
848 \if@numsections
numsections numbers C.sect.
849 \def\section{\@startsection{section}{1}{\z@}{3ex}{2ex}{\centering}}
850 \renewcommand{\thesection}{\thechapter.\arabic{section}.}
851 \def\subsection{\@startsection{subsection}{2}{\z@}{3ex}{2ex}{\centering}}
852 \renewcommand{\thesubsection}{\centering}
853 \def\subsubsection{\@startsection{subsubsection}{3}{\z@}{2ex}{2ex}{\centering}}
854 \renewcommand{\thesubsubsection}{\centering}
855 \renewcommand{\theequation}{Equation\ \thechapter.\arabic{equation}.}
856
857 \else
858 \def\section{\@startsection{section}{1}{\z@}{3ex}{2ex}{\centering}}
859 \def\subsection{\@startsection{subsection}{2}{\z@}{3ex}{2ex}{\centering}}
860 \def\subsubsection{\@startsection{subsubsection}{3}{\z@}{2ex}{2ex}{}}
861 \fi
862 \fi

```

## 10.22 Bibliography Formatting

`\@bibsection` Here we create the `\bibsection` command from a chapter and add an entry to the TOC.

```
863 \newcommand{\@bibsection}[1]{
864 \clearpage
865 \addcontentsline{toc}{chapter}{#1}
866 \@startchapter{#1}
867 \ifnum \c@citation > 0
868 \centering
869 \setlength\fbboxsep{10pt}
870 \setlength\fbboxrule{2pt}
871 \begin{center}
872 \framebox[1\columnwidth]{\parbox{0.95\columnwidth}{\textcolor{red}
873 {\centering\textbf{There are unresolved citation issues!\!*\%
874 Number of unresolved citations: \arabic{citation}.\!*\%
875 }}}}}
876 \end{center}
877 \fi
878 \singlespacing
879 \@mybibsingl
880 \vspace*{3ex}}
```

`\thebibliography` Here we build the bibliography using the `\bibsection` command.

```
881 \def\thebibliography#1{
882 \@bibsection{REFERENCES CITED}\list
883 {[[\arabic{enumi}]]{\labelwidth\z@ \itemindent-\parindent
884 \leftmargin\parindent
885 \interlinepenalty\@M
886 \usecounter{enumi}}}
887 \def\newblock{\hskip .11em plus .33em minus -.07em}
888 \sloppy
889 \raggedright
890 \sfcode'\.=1000\relax}
891 \let\endthebibliography=\endlist
892 %\newcommand{\formatbib}{
893 %% \addcontentsline{toc}{chapter}{REFERENCES CITED}
894 %% \renewcommand\bibname{REFERENCES CITED}}
895 \AtEndOfClass{\renewcommand\bibname{REFERENCES CITED}}
```

## 10.23 Float Labels

`\thefigure` Formatting for the the floats.

```
896 \def\thefigure{\@arabic\c@figure}
897 \def\fnum@figure{FIGURE \thefigure}
898 \def\thetable{\@arabic\c@table}
899 \def\fnum@table{TABLE \thetable}
```

Table and figure numbering by chapter or continuous

```
900 \if@gsmodern
901 \else
902 \def\cl@chapter{\@elt{section}\@elt{footnote}\@elt{equation}}
903 \fi
```

gsmodern sets figures and tables to be numbered C.Fig. and C.Tab.

```
904 \if@gsmodern
905 \renewcommand{\thefigure}{\thechapter.\arabic{figure}.}
906 \renewcommand{\thetable}{\thechapter.\arabic{table}.}
907 \renewcommand{\theequation}{Equation\ \thechapter.\arabic{equation}.}
908 \fi
```

## 10.24 Italicized Description Labels

`\descriptionlabel` Setting italics labels

```
909 \renewcommand{\descriptionlabel}[1]{
910 \hspace{\labelsep}\textit{#1}}
```

## 10.25 Appendix Formatting

`\appendix` Define the appendix and set up the formatting for the chapter heading.

```
911 \newif\if@appendices
912 \newcount\aux@appendices
913 \def\number@appendix#1#2{
914 \ifnum 1=\aux@appendices
915 \ifnum 1=#1
916 {\protect\hspace*{0.5in}}
917 \else
918 \numberline{#2}
919 \fi
920 \else
921 \numberline{#2}
922 \fi}
923 \def\appendix{
924 \par
925 \setcounter{chapter}{0}
926 \def\@chapapp{\uppercase{appendix}}
927 \def\thechapter{\Alph{chapter}}
928 \@appendicestrue}
```

## 10.26 Correction of Spacing Problems

... Not really sure what this code does. It is legacy form an earlier version.

`\@savidim`

```
929 \ifx\@savidim\undefined
930 \let\@savidim\@savsk
931 \newskip\@savsk
932 \fi
```

`\@bsphack`

```
933 \def\@bsphack{\relax
934 \ifmode
935 \else
936 \@savsk\lastskip
937 \@savsf
938 \ifhmode
```

```

939 \spacefactor
940 \else
941 \lastpenalty\@savdim\prevdepth\removelastskip%
942 \fi
943 \fi}

\@esphack
944 \def\@esphack{\relax
945 \ifmode
946 \else\ifvmode
947 \penalty\if@nobreak\@M
948 \else\if@inlabel\@M
949 \else\if@noskipsec\@M
950 \else\@savsf
951 \fi
952 \fi
953 \fi
954 \prevdepth\@savdim\vskip\@savsk
955 \else
956 \spacefactor\@savsf\relax
957 \ifdim\@savsk>\z@\ignorespaces
958 \fi
959 \fi
960 \fi}

```

## 10.27 Environment Refinements

\@@begintheorem

```

961 \def\@@begintheorem#1#2#3{\noindent
962 \list-{}{\rightmargin=\leftmargin
963 \itemindent=\leftmargin}
964 \item[\underline{#1\ #2}#3]\hskip
965 Opt\par\nobreak\ignorespaces}

```

\@begintheorem

```

966 \def\@begintheorem#1#2{
967 \@@begintheorem{#1}{#2}{}}

```

\@opargbegintheorem

```

968 \def\@opargbegintheorem#1#2#3{
969 \@@begintheorem{#1}{#2}{ (#3)}}

```

\@qed

```

970 \def\@qed{\unskip\nobreak
971 \hfil\penalty50\hskip1em\null\nobreak\hfil
972 \qedsymbol\parfillskip\z@\finalhyphendemerits0\par}}

```

\@endtheorem

```

973 \def\@endtheorem{\expandafter
974 \ifx\csname qedsymbol\endcsname\relax
975 \else\@qed\fi\endlist}

```



qedbox

```
976 \def\qedbox{{\mathsurround\z@\Box}}
977 \let\labelitemi=\labelitemii
978 \let\labelitemii=\labelitemiii
979 \let\labelitemiii=\labelitemiv
980 \catcode'*=11
981 \let\itemize*=\enumerate
982 \let\enditemize*=\endenumerate
983 \@makeother*
984 \let\@itemize=\itemize
```

\itemize

```
985 \def\itemize{
986 \typeout{Warning: Itemize
987 deprecated by Grad. School}
988 \global\let\itemize=\@itemize
989 \itemize}
```

quote\*

```
990 \newenvironment{quote*}
991 {\list{}{\rightmargin\leftmargin}
992 \item\relax}
993 {\endlist}
```

quote

```
994 \renewenvironment{quote}
995 {\begin{quote*}\setstretch{1.7}}
996 {\end{quote*}}
```

## 10.28 Reference Pages

\pagesref

```
997 \newif\if@pagesspecial
998 \newcommand{\pagesref}[5]{{
999 \@pagesspecialtrue
1000 \expandafter\ifx\csname r@#1\endcsname\relax
1001 \@pagesspecialfalse\else\fi
1002 \expandafter\ifx\csname r@#2\endcsname\relax
1003 \@pagesspecialfalse\else\fi
1004 \if@pagesspecial
1005 \@tempcnta=\pageref{#1}
1006 \@tempcntb=\pageref{#2}
1007 \ifnum\@tempcnta=\@tempcntb\else\@pagesspecialfalse\fi
1008 \if@pagesspecial
1009 \ifnum\@tempcnta=\c@page
1010 {#5}
1011 \else
1012 \mbox{{#3}\pageref{#1}}
1013 \fi
1014 \fi
1015 \fi
1016 \if@pagesspecial
```

```

1017 \else
1018 \mbox{{#4}\pageref{#1}--\pageref{#2}}
1019 \fi}}

```

`\pages`

```

1020 \newcommand{\pages}[2]{\pagesref{#1}{#2}}
1021 {p.\hspace*{0.2em}}{pp.\hspace*{0.2em}}{this page}}

```

</class>

## 11 Change History

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.5   | General: Major restructuring of the CV area to allow for a more LaTeX-like experience. Borrowing code ideas from alternate physics LaTeX Code. . . . . 19, 20                                                                                                                                                                                                                                                                            | v2.0d | port for draft option in graphics package (figures show bounding boxes rather than figures in draftcopy mode). <code>varioref</code> support corrected. . . . . 1                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| v1.0  | General: Everything previous to 2009/07/24 . . . . . 1                                                                                                                                                                                                                                                                                                                                                                                   |       | General: Refined editing tools to only appear in editing mode and not cause errors during final typesetting. . . . . 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| v2.0a | General: Initial work started. Considering all previous versions "1.0." Cleaning up comments updating out dated package used and added packages to provide new functionality. Removed support for "tech report." Removed <code>normalspace</code> command, will use <code>setspace</code> options from now on. Updated the chair and advisor listings to be more general. Corrected a formatting issue on the signature page . . . . . 1 | v2.0e | General: Created <code>draftimages</code> option, which sets the <code>includegraphics</code> command in <code>graphicx</code> to "draft" mode. . . . . 1                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| v2.0b | General: Removed outdated <code>caption.cls</code> support. Cleaning up the error codes during the compile. . . . . 1                                                                                                                                                                                                                                                                                                                    | v2.0f | General: Started cleaning up the comments and logic hierarchies. Using Tabs not spaces for nesting. . . . . 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| v2.0c | General: Updated <code>draftcopy</code> option. Added new features and tuned others. Added the <code>ednote</code> command (mooched from the 1.0 example documents) with some modifications. Added the <code>HERE</code> command (mooched from the 1.0 example documents) with some modifications. Added the <code>needref</code> command. Added sup-                                                                                    | v2.0g | General: Corrected comments from the UO graduate school. Title Page: Title double spaced. No hyphenation throughout (using hyphenation penalties). Suppressed widows and orphans. CV: Rolled Grants into Awards and Honors . TOC: Set the "Chapter" column heading to appear on extra TOC pages. Corrected References to be single spaced with 1 line between each entry. Correct References problem with TOC, spacing, and formatting. (found to be a conflict with <code>chemstyle</code> ). <code>gsmodern</code> set to be bold sections rather than underlined to prevent obscuring subscripts. . . . . 1 |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                         |   |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| v2.0h | General: Corrected comments from UO graduate school: Corrected chapter number spacing in TOC/TOT/TOF. Corrected fonts to force 12pt on final draft. Various improvements and new features: Implemented <code>cleanbreak</code> command for TOC/TOT/TOF linebreaks. Implemented <code>smallcaps</code> option for which allows small caps in the titles for use with subscripts. Refined various modes (Draft, Committee draft, etc.) added red disclaimers to all drafts implemented line numbers on draft modes added ams math files to default loading. Implemented <code>final</code> option to turn all draft modes off for dead sure. . . . . | environments and mhchem calls. <code>chem</code> is for use in short equations and uses amsmath equation environments. <code>Chem</code> is for use in long equations requiring linebreaks and uses amsmath multiline environments. Also added <code>rxn</code> : tag for cross referencing. <code>allow</code> for the use of typical ref commands or <code>eqref</code> from amsmath which produced parentheses . . . . . | 1                                                                                                                                                                                                                                       |   |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | v2.0m                                                                                                                                                                                                                                                                                                                                                                                                                       | General: Reworked the editing markup to use the todonotes package. Now adds a list of editing marks and the pages before the document in draft mode. . .                                                                                | 1 |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | v2.0n                                                                                                                                                                                                                                                                                                                                                                                                                       | General: Added support for lorem ipsum dummy text through the "lipsum" option in the document header. Cleaned up psuedocode. . . . .                                                                                                    | 1 |
| v2.0i | General: Created the option <code>contnumbering</code> : Provides option of having the figure and tables numbered continuously or by chapter. . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | v2.0o                                                                                                                                                                                                                                                                                                                                                                                                                       | General: Brought abstract and approval pages into compliance with new graduate student formatting guidelines. . . . .                                                                                                                   | 1 |
| v2.0j | General: Fixed numbering issues with appendices. Corrected coding for gsmoern to be the hierarchical level numbering. Implemented overfull hbox marking in all draft modes. . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                | v2.0p                                                                                                                                                                                                                                                                                                                                                                                                                       | General: Fixed comments from graduate student thesis editor. Corrected Appendix bug (somebody tied the appendix marker to the back flyleafâ€¦). Got the page number placement sorted out. .                                             | 1 |
| v2.0k | General: Corrected conditional appendix formatting to account for the formatting difference between a singular appendix and multiple appendices. Implemented watermarking on the various draft environments. Employed <code>draftwatermark.cls</code> : Currently only places watermarks on the first page... may change this in the future. Implemented Layouts package in draft mode only: Places a schematic of the page layout after the draft copy cover . . . . .                                                                                                                                                                            | v2.1                                                                                                                                                                                                                                                                                                                                                                                                                        | General: Tweaked gsmoern, numsection, and default numbering schemes for sections, tables and figures. . . . .                                                                                                                           | 1 |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | v2.2                                                                                                                                                                                                                                                                                                                                                                                                                        | General: Made flush left text the default for the text block. Added "justified" option for full justified (LaTeX default) text block. Adjusted the default indent to 24pt as per the GS recommendation. .                               | 1 |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | v2.3                                                                                                                                                                                                                                                                                                                                                                                                                        | General: added "amstex" and "chemistry" options. <code>amstex</code> loads the ams packages <code>amsthm</code> , <code>amsmath</code> , and <code>amssymb</code> packages in the appropriate order as indicated by the ams-tex manual. |   |
| v2.0l | General: Added new environments <code>chem</code> and <code>Chem</code> based on a combination of amsmath equation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                         |   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                               |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------|----|
| chemistry loads mhchem and creates new environments for long chemical equations as well as the "reaction" environment. . . . .                                                                                                                                                                                                                                                                                                                                                                       | 1  | CV handling. . . . .                                                          | 10 |
| v2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    | Added formatbib . . . . .                                                     | 38 |
| \@makeabstractpage: Added RaggedRight option to abstract. . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                    | 25 | changed the awards command, and turned it into a 1 entry macro. . . . .       | 10 |
| \@makeackpage: Added RaggedRight option to acknowledgements. . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                 | 26 | changed the degrees command, and turned it into a 1 entry macro. . . . .      | 10 |
| General: added bound option for formatting the document as for printing/binding. Currently this only handles 1 sided printing based on the previous dissertation class. Also ties the bound mode to the draft mode, allowing the printing and 3 hole punching of documents. A disclaimer is placed on the copyright page indicating that the document is for personal use and is not to be confused with the official formatting (i.e. final with bound off). First version in .dtx format . . . . . | 1  | changed the experience command, and turned it into a 1 entry macro. . . . .   | 10 |
| \cleanbreak: Corrected a potential error here when the command is used with the ragged right text block. . . . .                                                                                                                                                                                                                                                                                                                                                                                     | 15 | changed the publications command, and turned it into a 1 entry macro. . . . . | 10 |
| v2.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    | v2.5.1                                                                        |    |
| General: A significant rewrite of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    | General: Added natbib if statement                                            | 12 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    | Added natbib option . . . . .                                                 | 12 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    | Added new single space command for the bibliography . . . . .                 | 20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    | Removed formatbib command and changed single space call. . . . .              | 38 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    | natbib: Added natbib optional call here . . . . .                             | 14 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    | v2.5.3                                                                        |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    | General: Corrected block quotes . . . . .                                     | 40 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    | v2.5.4                                                                        |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    | General: Corrected formatting in extra tof and lot pages . . . . .            | 31 |

## 12 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.

|                              |                             |                           |
|------------------------------|-----------------------------|---------------------------|
| <b>Symbols</b>               | \@afterindenttrue . . . . . | \@cappapertype . . . . .  |
| \& . . . . .                 | 622, 685, 748, 754          | . . . . . 179, 181,       |
| \@@begintheorem . . . . .    | \@appendicestru . . . . .   | 185, 187, 190, 191        |
| . . . . . 961, 967, 969      | \@arabic . . . . .          | \@chair . . . . .         |
| \@Sigline . . . . .          | 896, 898                    | 231, 355                  |
| \@abstract . . . . .         | \@author . . . . .          | \@chapapp . . . . .       |
| 242, 397, 512                | 226, 349,                   | \@chapter . . . . .       |
| \@abstracttitle . . . . .    | 373, 383, 453, 506          | 685, 686, 748             |
| . . . . . 225, 350, 387      | \@awards . . . . .          | \@chapterline . . . . .   |
| \@acknowledge . . . . .      | 266, 469                    | . . . . . 426, 749, 750   |
| 245, 408                     | \@begintheorem . . . . .    | \@cochair . . . . .       |
| \@addtoreset 117, 127, 151   | 966                         | 234, 357, 391             |
| \@advisor . . . . .          | \@bibsection . . . . .      | \@cochairtrue . . . . .   |
| . . . . . 230, 359, 390, 393 | \@birthdate . . . . .       | 234                       |
| \@afterheading 736, 744      | \@birthplace . . . . .      | \@committee . . . . .     |
| \@afterindentfalse . . . . . | 260, 454                    | 236, 360                  |
| 755                          | \@bounddisclaimer . . . . . | \@copyrighttrue . . . . . |
|                              | . . . . . 214, 374          | . . . . . 42              |
|                              | \@bsphack . . . . .         | \@covertitle . . . . .    |
|                              | 933                         | 224, 503                  |
|                              |                             | \@currentlabel 689, 692   |

|                                                                                                             |                                                                                                   |                                                                                                 |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <code>\@cvhangindent</code> . . . . .                                                                       | <code>\@makechapterhead</code> . . . . .                                                          | <code>\@startchapter</code> . . . . .                                                           |
| . . . . . <a href="#">255</a> , <a href="#">456</a> , <a href="#">466</a>                                   | . . . . . <a href="#">659</a> , <a href="#">732</a> , <a href="#">735</a>                         | . . . . . <a href="#">379</a> , <a href="#">401</a> , <a href="#">429</a> ,                     |
| <code>\@dblarg</code> . . . . . <a href="#">761</a>                                                         | <code>\@makecopyrightpage</code>                                                                  | . . . . . <a href="#">450</a> , <a href="#">587</a> , <a href="#">596</a> ,                     |
| <code>\@dedication</code> <a href="#">244</a> , <a href="#">420</a> , <a href="#">437</a>                   | . . . . . <a href="#">368</a> , <a href="#">477</a>                                               | . . . . . <a href="#">605</a> , <a href="#">681</a> , <a href="#">750</a> , <a href="#">866</a> |
| <code>\@dedicationtrue</code> . . . . . <a href="#">244</a>                                                 | <code>\@makededpage</code> . . . . . <a href="#">416</a> , <a href="#">481</a>                    | <code>\@startsection</code> . . . . .                                                           |
| <code>\@degree</code> <a href="#">239</a> , <a href="#">339</a> , <a href="#">353</a> , <a href="#">384</a> | <code>\@makedraftcover</code> <a href="#">495</a> , <a href="#">528</a>                           | . . . . . <a href="#">752</a> , <a href="#">840</a> , <a href="#">842</a> ,                     |
| <code>\@degreemonth</code> . . . . .                                                                        | <code>\@makeoother</code> . . . . . <a href="#">983</a>                                           | . . . . . <a href="#">844</a> , <a href="#">849</a> , <a href="#">851</a> ,                     |
| . . . . . <a href="#">240</a> , <a href="#">340</a> , <a href="#">366</a> , <a href="#">386</a>             | <code>\@makeschapterhead</code> . . . . .                                                         | . . . . . <a href="#">853</a> , <a href="#">858</a> , <a href="#">859</a> , <a href="#">860</a> |
| <code>\@degrees</code> . . . . . <a href="#">263</a> , <a href="#">461</a>                                  | . . . . . <a href="#">680</a> , <a href="#">740</a> , <a href="#">743</a>                         | <code>\@starttoc</code> . . . . . <a href="#">486</a> ,                                         |
| <code>\@department</code> . . . . . <a href="#">228</a> , <a href="#">385</a>                               | <code>\@maketitlepage</code> <a href="#">319</a> , <a href="#">475</a>                            | . . . . . <a href="#">489</a> , <a href="#">591</a> , <a href="#">600</a> , <a href="#">609</a> |
| <code>\@disclaimer</code> . . . . . <a href="#">197</a> ,                                                   | <code>\@maketitlepages</code> . . . . .                                                           | <code>\@svsec</code> . . . . . <a href="#">766</a> ,                                            |
| . . . . . <a href="#">332</a> , <a href="#">405</a> , <a href="#">434</a> , <a href="#">516</a>             | . . . . . <a href="#">473</a> , <a href="#">523</a> , <a href="#">526</a> , <a href="#">534</a>   | . . . . . <a href="#">770</a> , <a href="#">773</a> , <a href="#">775</a> ,                     |
| <code>\@dissertationfalse</code> <a href="#">37</a>                                                         | <code>\@makevita</code> . . . . . <a href="#">447</a> , <a href="#">479</a>                       | . . . . . <a href="#">784</a> , <a href="#">794</a> , <a href="#">801</a> , <a href="#">816</a> |
| <code>\@dissertationtrue</code> . . . . . <a href="#">36</a>                                                | <code>\@mybibsingl</code> . . . . . <a href="#">174</a> , <a href="#">879</a>                     | <code>\@svsechd</code> . . . . . <a href="#">816</a> , <a href="#">836</a>                      |
| <code>\@dotsep</code> . . . . . <a href="#">630</a> , <a href="#">631</a>                                   | <code>\@mydouble</code> . . . . . <a href="#">172</a> , <a href="#">600</a> , <a href="#">609</a> | <code>\@tableofcontents</code> . . . . .                                                        |
| <code>\@dottedtocline</code> . . . . .                                                                      | <code>\@mysingle</code> . . . . . <a href="#">173</a> , <a href="#">591</a>                       | . . . . . <a href="#">484</a> , <a href="#">583</a>                                             |
| . . . . . <a href="#">615</a> , <a href="#">641</a> , <a href="#">645</a> ,                                 | <code>\@mysinglespace</code> <a href="#">173</a> , <a href="#">174</a>                            | <code>\@tempcnta</code> . . . . .                                                               |
| . . . . . <a href="#">649</a> , <a href="#">652</a> , <a href="#">655</a> , <a href="#">656</a>             | <code>\@narrowauthor</code> . . . . . <a href="#">227</a>                                         | . . . . . <a href="#">1005</a> , <a href="#">1007</a> , <a href="#">1009</a>                    |
| <code>\@draftdate</code> . . . . . <a href="#">175</a> , <a href="#">193</a>                                | <code>\@narrowdepartment</code> . . . . .                                                         | <code>\@tempcntb</code> . . . . . <a href="#">1006</a> , <a href="#">1007</a>                   |
| <code>\@draftstring</code> . . . . . <a href="#">192</a>                                                    | . . . . . <a href="#">229</a> , <a href="#">334</a> , <a href="#">353</a>                         | <code>\@tempdima</code> . . . . . <a href="#">292</a> , <a href="#">293</a> ,                   |
| <code>\@elt</code> . . . . . <a href="#">902</a>                                                            | <code>\@normalheaderdms</code> . . . . .                                                          | . . . . . <a href="#">294</a> , <a href="#">295</a> , <a href="#">296</a> ,                     |
| <code>\@emit</code> . . . . . <a href="#">313</a> , <a href="#">711</a>                                     | . . . . . <a href="#">269</a> , <a href="#">290</a> , <a href="#">492</a>                         | . . . . . <a href="#">297</a> , <a href="#">298</a> , <a href="#">299</a> ,                     |
| <code>\@empty</code> . . . . . <a href="#">154</a> , <a href="#">156</a> , <a href="#">158</a>              | <code>\@numsectionstrue</code> . . . . . <a href="#">44</a>                                       | . . . . . <a href="#">420</a> , <a href="#">422</a> , <a href="#">424</a> ,                     |
| <code>\@endtheorem</code> . . . . . <a href="#">973</a>                                                     | <code>\@oddfoot</code> . . . . .                                                                  | . . . . . <a href="#">611</a> , <a href="#">613</a> , <a href="#">625</a> , <a href="#">626</a> |
| <code>\@esphack</code> . . . . . <a href="#">944</a>                                                        | . . . . . <a href="#">547</a> , <a href="#">549</a> , <a href="#">552</a> ,                       | <code>\@tempskipa</code> . . . . .                                                              |
| <code>\@evenfoot</code> . . . . . <a href="#">549</a> ,                                                     | . . . . . <a href="#">554</a> , <a href="#">560</a> , <a href="#">562</a> ,                       | . . . . . <a href="#">753</a> , <a href="#">755</a> , <a href="#">759</a> ,                     |
| . . . . . <a href="#">554</a> , <a href="#">562</a> , <a href="#">570</a> , <a href="#">578</a>             | . . . . . <a href="#">568</a> , <a href="#">570</a> , <a href="#">576</a> , <a href="#">578</a>   | . . . . . <a href="#">780</a> , <a href="#">781</a> , <a href="#">824</a> , <a href="#">825</a> |
| <code>\@evenhead</code> . . . . . <a href="#">550</a> ,                                                     | <code>\@oddhead</code> . . . . .                                                                  | <code>\@tocrmarg</code> . . . . . <a href="#">619</a>                                           |
| . . . . . <a href="#">555</a> , <a href="#">563</a> , <a href="#">571</a> , <a href="#">579</a>             | . . . . . <a href="#">548</a> , <a href="#">550</a> , <a href="#">553</a> ,                       | <code>\@topnewpage</code> . . . . . <a href="#">732</a> , <a href="#">740</a>                   |
| <code>\@experience</code> . . . . . <a href="#">265</a> , <a href="#">468</a>                               | . . . . . <a href="#">561</a> , <a href="#">569</a> , <a href="#">577</a> , <a href="#">579</a>   | <code>\@topnum</code> . . . . . <a href="#">684</a> , <a href="#">747</a>                       |
| <code>\@footer</code> <a href="#">542</a> , <a href="#">544</a> , <a href="#">547</a> ,                     | <code>\@opargbegintheorem</code> <a href="#">968</a>                                              | <code>\@underbar</code> . . . . . <a href="#">751</a> ,                                         |
| . . . . . <a href="#">552</a> , <a href="#">560</a> , <a href="#">568</a> , <a href="#">576</a>             | <code>\@optional</code> . . . . . <a href="#">246</a>                                             | . . . . . <a href="#">795</a> , <a href="#">805</a> , <a href="#">828</a> , <a href="#">830</a> |
| <code>\@footlines</code> <a href="#">540</a> , <a href="#">547</a> ,                                        | <code>\@pagesspecialfalse</code> . . . . .                                                        | <code>\@upperabstracttitle</code>                                                               |
| . . . . . <a href="#">552</a> , <a href="#">560</a> , <a href="#">568</a> , <a href="#">576</a>             | . . . . . <a href="#">1001</a> , <a href="#">1003</a> , <a href="#">1007</a>                      | . . . . . <a href="#">225</a>                                                                   |
| <code>\@fromtopskip</code> . . . . .                                                                        | <code>\@pagesspecialtrue</code> . . . . . <a href="#">999</a>                                     | <code>\@upperauthor</code> . . . . . <a href="#">226</a> , <a href="#">330</a>                  |
| . . . . . <a href="#">291</a> , <a href="#">372</a> , <a href="#">425</a> , <a href="#">428</a>             | <code>\@papertype</code> . . . . . <a href="#">191</a> , <a href="#">351</a>                      | <code>\@uppercovertitle</code> . . . . .                                                        |
| <code>\@graddean</code> . . . . . <a href="#">238</a> , <a href="#">362</a>                                 | <code>\@plus</code> . . . . . <a href="#">618</a>                                                 | . . . . . <a href="#">224</a> , <a href="#">326</a>                                             |
| <code>\@gsmodertrue</code> . . . . . <a href="#">43</a>                                                     | <code>\@pnwidth</code> . . . . . <a href="#">634</a>                                              | <code>\@uppernarrowauthor</code> <a href="#">227</a>                                            |
| <code>\@hangfrom</code> . . . . .                                                                           | <code>\@publications</code> <a href="#">267</a> , <a href="#">470</a>                             | <code>\@upperpapertype</code> <a href="#">190</a> ,                                             |
| . . . . . <a href="#">784</a> , <a href="#">790</a> , <a href="#">801</a> , <a href="#">826</a>             | <code>\@qed</code> . . . . . <a href="#">970</a> , <a href="#">975</a>                            | . . . . . <a href="#">333</a> , <a href="#">345</a> , <a href="#">379</a> , <a href="#">501</a> |
| <code>\@ifnextchar</code> . . . . . <a href="#">162</a> , <a href="#">164</a>                               | <code>\@savdim</code> . . . . . <a href="#">929</a> , <a href="#">941</a> , <a href="#">954</a>   | <code>\@xsect</code> . . . . . <a href="#">823</a> , <a href="#">838</a>                        |
| <code>\@ifstar</code> . . . . . <a href="#">761</a>                                                         | <code>\@savsf</code> . . . . . <a href="#">937</a> , <a href="#">950</a> , <a href="#">956</a>    |                                                                                                 |
| <code>\@interests</code> . . . . . <a href="#">264</a> , <a href="#">464</a>                                | <code>\@savsk</code> . . . . . <a href="#">930</a> ,                                              | <code>\_</code> . . . . . <a href="#">133</a> , <a href="#">150</a> , <a href="#">345</a> ,     |
| <code>\@itemize</code> . . . . . <a href="#">984</a> , <a href="#">988</a>                                  | . . . . . <a href="#">931</a> , <a href="#">936</a> , <a href="#">954</a> , <a href="#">957</a>   | . . . . . <a href="#">351</a> , <a href="#">353</a> , <a href="#">379</a> ,                     |
| <code>\@listoffigures</code> <a href="#">486</a> , <a href="#">592</a>                                      | <code>\@schapter</code> . . . . . <a href="#">685</a> , <a href="#">738</a> , <a href="#">748</a> | . . . . . <a href="#">846</a> , <a href="#">855</a> , <a href="#">907</a> , <a href="#">964</a> |
| <code>\@listoftables</code> <a href="#">489</a> , <a href="#">601</a>                                       | <code>\@schools</code> . . . . . <a href="#">262</a> , <a href="#">458</a>                        |                                                                                                 |
| <code>\@longdraftdate</code> <a href="#">176</a> , <a href="#">505</a>                                      | <code>\@sechack</code> . . . . . <a href="#">638</a> ,                                            |                                                                                                 |
| <code>\@mainaux</code> . . . . . <a href="#">313</a>                                                        | . . . . . <a href="#">643</a> , <a href="#">645</a> , <a href="#">649</a> , <a href="#">652</a>   | <b>A</b>                                                                                        |
| <code>\@makeabstractpage</code> . . . . .                                                                   | <code>\@secpenalty</code> . . . . . <a href="#">759</a>                                           | <code>\abstract</code> . . . . . <a href="#">9</a> , <a href="#">242</a>                        |
| . . . . . <a href="#">376</a> , <a href="#">478</a>                                                         | <code>\@sect</code> . . . . . <a href="#">762</a> , <a href="#">763</a>                           | <code>\abstracttitle</code> . . . . . <a href="#">9</a> , <a href="#">225</a>                   |
| <code>\@makeackpage</code> . . . . . <a href="#">398</a> , <a href="#">480</a>                              | <code>\@sigline</code> . . . . .                                                                  | <code>\acknowledge</code> . . . . . <a href="#">9</a> , <a href="#">245</a>                     |
| <code>\@makeapprovepage</code> . . . . .                                                                    | . . . . . <a href="#">248</a> , <a href="#">390</a> , <a href="#">391</a> , <a href="#">393</a>   | <code>\addcontentsline</code> <a href="#">133</a> ,                                             |
| . . . . . <a href="#">342</a> , <a href="#">476</a>                                                         | <code>\@ssect</code> . . . . . <a href="#">761</a> , <a href="#">824</a>                          | . . . . . <a href="#">715</a> , <a href="#">719</a> , <a href="#">725</a> ,                     |
|                                                                                                             |                                                                                                   | . . . . . <a href="#">810</a> , <a href="#">817</a> , <a href="#">865</a> , <a href="#">893</a> |

|                                                         |               |                                                        |                    |                                                        |              |
|---------------------------------------------------------|---------------|--------------------------------------------------------|--------------------|--------------------------------------------------------|--------------|
| <code>\addpenalty</code> . . . . .                      | 759           | <code>committeedraft</code> (option)                   | 4                  | <code>\endthebibliography</code>                       | 891          |
| <code>\addtocontents</code> . . . . .                   | 699, 704      | <code>committeedraftfalse</code>                       | 53                 | <code>\ensuremath</code> . . . . .                     | 134          |
| <code>\addtolength</code> . . . . .                     | 257           | <code>committeedrafttrue</code>                        | 40                 | <code>\enumerate</code> . . . . .                      | 981          |
| <code>\advspace</code> . . . . .                        | 759           | <code>contnumbering</code> (option)                    | 5                  | environments:                                          |              |
| <code>\advance</code> 293, 294, 295, 296, 297, 298, 626 |               | <code>copyright</code> . . . . .                       | 373                | <code>quote</code> . . . . .                           | 994          |
| <code>\advisor</code> . . . . .                         | 9, 230        | <code>copyright</code> (option)                        | 5                  | <code>quote*</code> . . . . .                          | 990          |
| <code>\Alph</code> . . . . .                            | 690, 721, 927 | <code>\covertitle</code> . . . . .                     | 9, 224             | <code>\etal</code> . . . . .                           | 6, 164       |
| <code>\amstex</code> . . . . .                          | 94            | <code>\cst@eg</code> . . . . .                         | 165, 170           | <code>\etc</code> . . . . .                            | 6, 162       |
| <code>amstex</code> (option) . . . . .                  | 5             | <code>\cst@etal</code> . . . . .                       | 164, 167           | <code>\evensidemargin</code>                           | 275, 283     |
| <code>\amstextrue</code> . . . . .                      | 45, 46        | <code>\cst@etc</code> . . . . .                        | 162, 168           | <code>\everypar</code> . 456, 465, 757                 |              |
| <code>\appendix</code> . . . . .                        | 911           | <code>\cst@ie</code> . . . . .                         | 166, 169           | <code>\experience</code> . . . . .                     | 265          |
| <code>\AtEndOfClass</code> . . . . .                    | 895           | <code>\cst@latin</code> . 161, 163, 167, 168, 169, 170 |                    | <code>\ext@figure</code> . . . 486, 600                |              |
| <code>\author</code> . . . . .                          | 9, 226        | <code>\cst@xspace</code> . . . . .                     | 160, 162, 163, 164 | <code>\ext@table</code> . . . . 489, 609               |              |
| <code>\award</code> . . . . .                           | 10, 266       | <code>\CurrentOption</code> . . . . .                  | 57                 |                                                        |              |
| <code>\awards</code> . . . . .                          | 266           | <code>\CV_Variables</code> . . . . .                   | 260                | <b>F</b>                                               |              |
|                                                         |               | <code>\cvitem</code> 259, 468, 469, 470                |                    | <code>\fboxrule</code> . . . . .                       | 206, 870     |
| <b>B</b>                                                |               | <code>\cvmultiline</code> . . . . .                    | 251                | <code>\fboxsep</code> . . . . .                        | 205, 869     |
| <code>\bibname</code> . . . . .                         | 894, 895      | <code>\cvoneline</code> . . . . .                      | 250                | <code>final</code> (option) . . . . .                  | 5            |
| <code>\birthday</code> . . . . .                        | 10, 261       |                                                        |                    | <code>\finalhyphendemerits</code>                      | 972          |
| <code>\birthplace</code> . . . . .                      | 10, 260       | <b>D</b>                                               |                    | . . . . .                                              | 972          |
| <code>\blacksquare</code> . . . . .                     | 122           | <code>\day</code> . . . . .                            | 175                | <code>\finaltrue</code> . . . . .                      | 53           |
| <code>bound</code> (option) . . . . .                   | 5             | <code>\dedication</code> . . . . .                     | 9, 243             | <code>\fnum@figure</code> . . . . .                    | 897          |
| <code>\boundtrue</code> . . . . .                       | 39, 55        | <code>\degree</code> . . . . .                         | 10, 263            | <code>\fnum@table</code> . . . . .                     | 899          |
|                                                         |               | <code>\degreemonth</code> . . . . .                    | 9, 240             | <code>\footnotesep</code> . . . 278, 286               |              |
| <b>C</b>                                                |               | <code>\degrees</code> . . . . .                        | 263                | <code>\footnotesize</code> . . . . .                   | 512          |
| <code>\c@citation</code> . . . . .                      | 867           | <code>\degreetype</code> . . . . .                     | 9, 239             | <code>\footskip</code> . . . . .                       | 277, 285     |
| <code>\c@figure</code> . . . . .                        | 896           | <code>\degreeyear</code> . . . . .                     | 9, 241             | <code>\formatbib</code> . . . . .                      | 892          |
| <code>\c@page</code> . . . . .                          | 1009          | <code>\department</code> . . . . .                     | 9, 228             | <code>\framebox</code> . . . . .                       | 207, 872     |
| <code>\c@secnumdepth</code> . . . . .                   | 661, 712, 777 | <code>\descriptionlabel</code> . . 909                 |                    | <b>G</b>                                               |              |
| <code>\c@table</code> . . . . .                         | 898           | <code>dissertation</code> (option)                     | 4                  | <code>\global</code> 684, 711, 747, 988                |              |
| <code>\c@tocdepth</code> . . . . .                      | 616           | <code>\doublespacing</code> . . . . .                  | 325                | <code>\graddean</code> . . . . .                       | 9, 238       |
| <code>\captionsetup</code> . . . . .                    | 88            | <code>\dp</code> . . . . .                             | 751                | <code>gsmodern</code> (option) . . . . .               | 5            |
| <code>\catcode</code> . . . . .                         | 980           | <code>draftcopy</code> (option) . . . 4                |                    |                                                        |              |
| <code>\cee</code> . . . . .                             | 153, 155, 157 | <code>\draftcopyfalse</code> . . . . 52                |                    | <b>H</b>                                               |              |
| <code>\centerline</code> . . . . .                      | 373, 749      | <code>\draftcopytrue</code> . . . . .                  | 39                 | <code>\hangindent</code> 456, 466, 621                 |              |
| <code>\chair</code> . . . . .                           | 9, 231        | <code>\draftimagefalse</code> . . . . 52               |                    | <code>\hb@xt@</code> . . . . .                         | 634          |
| <code>\chapter</code> . . . . .                         | 683, 746      | <code>\draftimages</code> (option) . . 4               |                    | <code>\headheight</code> 271, 295, 557, 565, 573, 581  |              |
| <code>\chaptermark</code> . . . . .                     | 730           | <code>\draftimagetrue</code> . . . . .                 | 38                 | <code>\headsep</code> . . 272, 296, 558, 566, 574, 582 |              |
| <code>\Chem</code> . . . . .                            | 6, 157        | <code>\drafttrue</code> . . . 39, 40, 41               |                    | <code>\here</code> . . . . .                           | 6, 122, 137  |
| <code>\chem</code> . . . . .                            | 6, 91, 153    | <code>\draftwatermark</code> . . . . 103               |                    | <code>\hyphenpenalty</code> . . . . 314                |              |
| <code>\chemarray</code> . . . . .                       | 7, 155        |                                                        |                    |                                                        |              |
| <code>chemistry</code> (option) . . . . 5               |               | <b>E</b>                                               |                    | <b>I</b>                                               |              |
| <code>\chemtrue</code> . . . . .                        | 46            | <code>\edef</code> . . . . .                           | 766, 770, 775      | <code>\ie</code> . . . . .                             | 6, 166       |
| <code>\cite</code> . . . . .                            | 140           | <code>\ednote</code> . . . . .                         | 6, 116, 136        | <code>\if@appendices</code> . 663, 688, 696, 713, 911  |              |
| <code>\cl@chapter</code> . . . . .                      | 902           | <code>\eg</code> . . . . .                             | 6, 165             | <code>\if@cochair</code> 232, 356, 389                 |              |
| <code>\cleanbreak</code> . . . . .                      | 5, 142        | <code>\emph</code> . . . . .                           | 161                | <code>\if@contnumb</code> . . . . .                    | 34           |
| <code>\clubpenalty</code> . . . . .                     | 317           | <code>\enumerate</code> . . . . .                      | 982                | <code>\if@copyright</code> . . . 31, 369               |              |
| <code>\cochair</code> . . . . .                         | 9, 232        | <code>\enditemize</code> . . . . .                     | 982                | <code>\if@dedication</code> 243, 417                   |              |
| <code>\colorbox</code> . . . . .                        | 133           | <code>\endlist</code> . . 891, 975, 993                |                    | <code>\if@dissertation</code> . . . . .                | 30, 177, 233 |
| <code>\columnwidth</code> . . 207, 872                  |               | <code>\endsinglespace</code> . . . . 172               |                    | <code>\if@draftimage</code> . . . . .                  | 35           |
| <code>\committee</code> . . . . .                       | 9, 236        |                                                        |                    |                                                        |              |





|                                  |                                                                      |  |  |
|----------------------------------|----------------------------------------------------------------------|--|--|
| justified . . . . .              | 5                                                                    |  |  |
| latedraft . . . . .              | 5                                                                    |  |  |
| msthesis . . . . .               | 4                                                                    |  |  |
| nofigures . . . . .              | 5                                                                    |  |  |
| notables . . . . .               | 5                                                                    |  |  |
| numsections . . . . .            | 5                                                                    |  |  |
| smallcaps . . . . .              | 5                                                                    |  |  |
| <b>P</b>                         |                                                                      |  |  |
| \p@ . . . . .                    | 618                                                                  |  |  |
| \pagebreak . . . . .             | 640, 700, 705                                                        |  |  |
| \pagenumbering . . . . .         | 474, 529, 538                                                        |  |  |
| \pageref . . . . .               | 1005, 1006, 1012, 1018                                               |  |  |
| \pages . . . . .                 | 1020                                                                 |  |  |
| \pagesref . . . . .              | 997, 1020                                                            |  |  |
| \pagestyle . . . . .             | 378, 536, 591, 600, 609                                              |  |  |
| \parbox . . . . .                | 207, 215, 254, 388, 872                                              |  |  |
| \parfillskip . . . . .           | 620, 972                                                             |  |  |
| \parindent . . . . .             | 256, 279, 287, 621, 883, 884                                         |  |  |
| \parskip . . . . .               | 249, 465                                                             |  |  |
| \PassOptionsToClass . . . . .    | 67, 68, 69, 70, 73, 75                                               |  |  |
| \PassOptionsToPackage . . . . .  | 38, 57                                                               |  |  |
| \penalty . . . . .               | 947, 971                                                             |  |  |
| \position . . . . .              | 10, 265                                                              |  |  |
| \prevdepth . . . . .             | 941, 954                                                             |  |  |
| \ProcessOptions . . . . .        | 58                                                                   |  |  |
| \protected@edef . . . . .        | 689, 692                                                             |  |  |
| \ProvidesClass . . . . .         | 2                                                                    |  |  |
| \ps@lofextraheadings . . . . .   | 559                                                                  |  |  |
| \ps@lotextraheadings . . . . .   | 567                                                                  |  |  |
| \ps@plain . . . . .              | 575                                                                  |  |  |
| \ps@tocextraheadings . . . . .   | 551                                                                  |  |  |
| \ps@tocheadings . . . . .        | 546                                                                  |  |  |
| \publication . . . . .           | 10, 267                                                              |  |  |
| \publications . . . . .          | 267                                                                  |  |  |
| <b>Q</b>                         |                                                                      |  |  |
| \qedbox . . . . .                | 976, 976                                                             |  |  |
| \qedsymbol . . . . .             | 972                                                                  |  |  |
| \quad . . . . .                  | 453, 454, 455                                                        |  |  |
| quote (environment) . . . . .    | 994                                                                  |  |  |
| quote* (environment) . . . . .   | 990                                                                  |  |  |
| <b>R</b>                         |                                                                      |  |  |
| \raggedbottom . . . . .          | 318                                                                  |  |  |
| \RaggedRight . . . . .           | 396, 407, 537                                                        |  |  |
| \raggedright . . . . .           | 388, 889                                                             |  |  |
| \RaggedRightParindent . . . . .  | 90                                                                   |  |  |
| \RaggedRightRightskip . . . . .  | 89                                                                   |  |  |
| \reaction . . . . .              | 148                                                                  |  |  |
| \reactiontag . . . . .           | 152, 154, 156, 158                                                   |  |  |
| \refstepcounter . . . . .        | 152, 765, 769, 777                                                   |  |  |
| \removelastskip . . . . .        | 941                                                                  |  |  |
| \renewenvironment . . . . .      | 994                                                                  |  |  |
| \rfmk . . . . .                  | 6, 132, 140                                                          |  |  |
| \rightmargin . . . . .           | 962, 991                                                             |  |  |
| \rightskip . . . . .             | 619, 620                                                             |  |  |
| \rm . . . . .                    | 542, 544                                                             |  |  |
| \Roman . . . . .                 | 674, 693, 726                                                        |  |  |
| \rule . . . . .                  | 248                                                                  |  |  |
| <b>S</b>                         |                                                                      |  |  |
| \sc . . . . .                    | 193                                                                  |  |  |
| \school . . . . .                | 10, 262                                                              |  |  |
| \schools . . . . .               | 262                                                                  |  |  |
| \scriptsize . . . . .            | 118, 129                                                             |  |  |
| \sctrue . . . . .                | 47                                                                   |  |  |
| \secdef . . . . .                | 685, 748                                                             |  |  |
| \section . . . . .               | 839                                                                  |  |  |
| \setbox . . . . .                | 751                                                                  |  |  |
| \setcounter . . . . .            | 301, 304, 307, 309, 310, 539, 925                                    |  |  |
| \setlength . . . . .             | 89, 90, 205, 206, 256, 422, 869, 870                                 |  |  |
| \setstretch . . . . .            | 172, 173, 174, 268, 995                                              |  |  |
| \settowidth . . . . .            | 420                                                                  |  |  |
| \SetWatermarkAngle . . . . .     | 105                                                                  |  |  |
| \SetWatermarkFontSize . . . . .  | 107                                                                  |  |  |
| \SetWatermarkLightness . . . . . | 106                                                                  |  |  |
| \SetWatermarkScale . . . . .     | 108                                                                  |  |  |
| \SetWatermarkText . . . . .      | 109                                                                  |  |  |
| \sfcode . . . . .                | 890                                                                  |  |  |
| \sigline, \Sigline . . . . .     | 248                                                                  |  |  |
| \spaceskip . . . . .             | 173, 174, 622                                                        |  |  |
| \spaceskip . . . . .             | 327, 878                                                             |  |  |
| \sloppy . . . . .                | 888                                                                  |  |  |
| \small . . . . .                 | 123, 509                                                             |  |  |
| smallcaps (option) . . . . .     | 5                                                                    |  |  |
| <b>T</b>                         |                                                                      |  |  |
| \text . . . . .                  | 134                                                                  |  |  |
| \textbf . . . . .                | 121, 124, 131, 198, 199, 200, 202, 208, 412, 442, 873                |  |  |
| \textcolor . . . . .             | 121, 122, 131, 133, 134, 140, 198, 199, 200, 202, 207, 412, 442, 872 |  |  |
| \textheight . . . . .            | 270, 556, 564, 572, 580                                              |  |  |
| \textit . . . . .                | 910                                                                  |  |  |
| \textsc . . . . .                | 679, 681, 717, 722, 726, 730, 732, 735, 740, 743                     |  |  |
| \textwidth . . . . .             | 215, 276, 284, 424, 540, 553, 555, 561, 563, 569, 571, 590, 599, 608 |  |  |
| \the . . . . .                   | 175                                                                  |  |  |
| \thebibliography . . . . .       | 881                                                                  |  |  |
| \thedegreeyear . . . . .         | 241, 340, 366, 373, 386                                              |  |  |
| \theequation . . . . .           | 846, 855, 907                                                        |  |  |
| \thefigure . . . . .             | 896                                                                  |  |  |
| \thepage . . . . .               | 542, 544                                                             |  |  |
| \thereaction . . . . .           | 150, 152                                                             |  |  |
| \thesection . . . . .            | 841, 843, 850                                                        |  |  |
| \thesistrue . . . . .            | 36, 37                                                               |  |  |
| \thesubsection . . . . .         | 843, 845, 852                                                        |  |  |
| \thesubsubsection . . . . .      | 845, 854                                                             |  |  |
| \thetable . . . . .              | 898, 899, 906                                                        |  |  |
| \tiny . . . . .                  | 217                                                                  |  |  |
| \today . . . . .                 | 176                                                                  |  |  |
| \todo . . . . .                  | 118, 122, 128                                                        |  |  |
| \tolerance . . . . .             | 315                                                                  |  |  |
| \topmargin . . . . .             | 280, 288, 294                                                        |  |  |
| \two@digits . . . . .            | 175                                                                  |  |  |
| <b>U</b>                         |                                                                      |  |  |
| \undefined . . . . .             | 929                                                                  |  |  |



|                                    |          |                                      |                                      |
|------------------------------------|----------|--------------------------------------|--------------------------------------|
| <code>\underline</code> . . . .    | 751, 964 | . 105, 110, 111, 112                 | Y                                    |
| <code>\unskip</code> . . . . .     | 970      | <code>\widowpenalty</code> . . . . . | 316 <code>\year</code> . . . . . 175 |
| <code>\usecounter</code> . . . . . | 886      |                                      |                                      |
|                                    | <b>W</b> |                                      | <b>X</b>                             |
| <code>\watermark</code> . . . . .  |          | <code>\xspace</code> . . . . .       | 160                                  |