The mines-thesis class *

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Abstract

This package provides a class for graduate students at Colorado School of Mines to prepare their theses and dissertations.

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1 User's Guide

1.1 Installation

1.2 Invocation and Options

\documentclass

The mines-thesis class is invoked in the standard fashion.

 $\documentclass[\langle options \rangle] \{ mines-thesis \}$

There are several options corresponding to the type of the document and its general appearance. They are described below. Generally speaking, the options have key=value forms, for example,

\documentclass[10pt]{mines-thesis}

The default options are letterpaper,12pt. TODO review? oneside? onecolumn,draft,openany

1.3 Preprogrammed Formats

\title
\author
\year
\degree
\advisor
\coadvisor
\department
\departmenthead
abstract

The environment abstract must *precede* the \makefrontmatter command. Again, this is different from the standard LATEX. Putting abstract after \makefrontmatter will trigger an error.

\begin{abstract}
Here goes the abstract...
\end{abstract}

\makefrontmatter

The front matter of a thesis includes:

- 1. Title page (Required)
- 2. Copyright page
- 3. Submittal page (Required)
- 4. Abstract (Required)
- 5. Table of Contents (Required)
- 6. Lists (Required if included in thesis)
 - (a) List of Figures

- (b) List of Tables
- (c) List of Equations (optional)
- (d) List of Plates
- (e) List of Symbols
- 7. Acknowledgments
- 8. Dedication

Invoking

\makefrontmatter

will generate all components listed above. It can be commented out until you need the front matter generated.

\chapter
\section
\subsection
\subsubsection
\paragraph
landscape

Try the lscape package: lscape.sty Produce landscape pages in a (mainly) portrait document. This modifies the margins and rotates the page contents but not the page number. Useful, for example, with large multipage tables, and is compatible with the packages longtable and supertabular. If you are using pdfLaTeX, you should use pdflscape instead. The pdflscape package adds PDF support to the landscape environment of package lscape, by setting the PDF/Rotate page attribute. Pages with this attribute will be displayed in landscape orientation by conforming PDF viewers:

begin{landscape}
Here goes the figure or table...
\end{landscape}

\OnehalfSpacing \DoubleSpacing SingleSpace

\OnehalfSpacing \OnehalfSpacing* \DoubleSpacing \DoubleSpacing* Text will be double spaced or 1.5 spaced. Sometimes it is also required to make page notes and floats (including captions) in 'double' spacing. The starred version of the two macros above takes care of this.

2 Frequently Asked Questions

Blank pages. If you use landscape and got extra blank pages, it if mostly because your figure is too large. You need to resize the height or width of the figure. For example, instead of \includegraphics[width=\linewidth]{FigureName}, you should use \includegraphics[width=.6\linewidth]{FigureName}

3 Implementation

3.1 Initial Code

These packages are useful when writing this .dtx file. The \ifthenelse macro controls many conditional logic command, So we load ifthen package. The \collect@body macro in amsmath is defined using \def. We load environ to access the \long version of this command.

- 2 \RequirePackage{environ}

3.1.1 Declaration of Options

The review boolean is defined here for use with the class options.

```
3 \newboolean{review}
4 \DeclareOption{draft}{\setboolean{review}{true}}
5 \DeclareOption{final}{\setboolean{review}{false}}
6 \PassOptionsToClass{final,12pt,onecolumn,openany}{memoir}}
7 \DeclareOption*{
8 \PassOptionsToClass{\CurrentOption}{memoir}}
9 }
```

10 \ExecuteOptions{final}

3.1.2 Execution of Options

11 \ProcessOptions\relax

3.1.3 Package Loading

12 \LoadClass[oneside,letterpaper]{memoir}

3.2 Main Code

3.2.1 Global Setting

In this section, we define margins, spacings, indentations, hyphenations, and so on. The page is set by \setpagecc to be centered with respect to the stock.

```
13 \sqrt{11in} {8.5in}{*}
```

The margins is set to be 1in for all left, right, upper, and lower margins.

```
14 \setlrmarginsandblock{1in}{*}{*}
```

¹⁵ $\left\{1in\right\}$

If there is a header, its height would be **\onelineskip**. If there is a footer, it would be **2\onelineskip** below the body text. The header would be **2\onelineskip** above the body text.

- $16 \sline {\one line skip} {2 \one line skip}$
- 17 \setheaderspaces{*}{2\onelineskip}{*}

By default, we use double spacing for the thesis/dissertaion.

18 \DoubleSpacing

The paragraph indentation is 2em. 1em is roughly the width of a capital "M" in the current font. We will also indent the first paragraph after a section heading.

- 19 \setlength{\parindent}{2em}
- 20 \let\@afterindentfalse\@afterindenttrue
- 21 \@afterindenttrue

We check and implement the layout settings.

22 \checkandfixthelayout

Moreover, we remove all interior spaces for list environments,

23 \tightlists % use \firmlists if vertical gaps is wanted and prevent LATFX from hyphenating the entire document.

- 24 \tolerance=1
- 25 \emergencystretch=\maxdimen
- 26 \hyphenpenalty=10000
- 27 \hbadness=10000

3.2.2 Front Matter

\makefrontmatter

The \makefrontmatter will generate all front matter pages: \maketitlepage for Title Page, \makecopyrightpage for Copyright Page, \makesubmittalpage for Submittal Page, \makeabstractpage for Abstract, \makecft for Tables of Contents (toc) and Lists (List of Figures (lof) & List of Tables (lot)), \makeacknowledgepage for Acknowledgments, and \makededicationpage for Dedication.

- 28 \newcommand{\makefrontmatter}{
- 29 \pagenumbering{roman}
- 30 \pagestyle{empty}
- 31 \maketitlepage
- 32 \makecopyrightpage
- $33 \neq pagestyle{plain}$
- 34 \setcounter{page}{2}
- $35 \text{ } \text{\ } \text{$
- 36 \makeabstractpage
- $37 \setminus makecft$
- ${\tt 38} \verb| \verb| makeacknowledgepage| }$
- 39 \makededicationpage
- 40 \pagenumbering{arabic}
- 41 \setcounter{page}{1}
- 42 }

```
43 \newboolean{auto} % for auto pyramid
44 \setboolean{auto}{false}
46 \end{degree} 
47 \def\advisor#1{\gdef\@advisor{#1}}
48 \def\coadvisor#1{\gdef\@coadvisor{#1}}
49 \def\department#1{\gdef\@department{#1}}
50 \def\departmenthead#1{\gdef\@departmenthead{#1}}
        The following are the initial values for some macros that provide info.
51 \gdef\@author{Your Name}
52 \gdef\@title{This is the first line of a medium length title,
53 this is the second line}
54 \gdef\@year{2020}
55 \gdef\@degreelv{Doctor of Philosophy}
56 \ensuremath{\verb||} \texttt{Gomputer Science} \\
57 \gdef\@advisor{Dr. Main Advisor}
58 % ^^A \gdef\@coadvisor{Dr. Co Advisor}
59 \gdef\@department{Department of Some Name}
60 \gdef\@departmenthead{Dr. Department Head}
```

\maketitlepage

The thesis title must be in all upper case letters, be centered on the page both horizontally and vertically, be in an inverted pyramid shape and the font size needs to be the same size as all other font in the main text (i.e. do not make the font size larger).

```
61 \DeclareRobustCommand{\invpyr}[1]{
62 \vbox{
63 \vspace{10pt}
64 \hsize=\textwidth
65 \parindent=\z@
66 \emergencystretch=1in
67 \parshape 6
68 0.01\textwidth .98\textwidth
69 0.1\textwidth .8\textwidth
70 0.15\textwidth .7\textwidth
71 0.2\textwidth .6\textwidth
72 0.25\textwidth .5\textwidth
73 0.3\textwidth .4\textwidth
74 \left| \text{leftskip=} \right| 20 \text{ plus 1fil}
75 \rightskip=\z@ plus -1fil
76 \parfillskip=\z@ plus 2fil
77 #1\par
78 }
80 \newcommand{\autotitle}{\setboolean{auto}{true}}
81 \newcommand{\maketitlepage}{
82 \clearpage
83 \begin{vplace}
84 \centering
```

```
85 \ifthenelse{\boolean{auto}}
86 {\invpyr{\MakeTextUppercase{\Ctitle}}}
87 {\Ctitle}
88 \end{vplace}
89 \begin{center}
90 by\\
91 \Cauthor
92 \end{center}
93 \clearpage
94 }
```

\makecopyrightpage

Copyright Page. This is an optional page that follows the title page. No displayed page number, centered upper and lower case text.

```
95 \newcommand{\makecopyrightpage}{
96 \clearpage
97 \begin{vplace}[0.8]
98 \centering
99 Copyright~by~\@author~\@year\\
100 All~Rights~Reserved
101 \end{vplace}
102 \clearpage
103 }
```

\makesubmittalpage

Submittal Page. This is a required page that displays the Roman numeral ii page number. Beginning with this page, front matter Roman numeral page numbers are centered 1/2 inch from the bottom edge of page. All signatures are required before the final thesis format review.

```
104 \newcommand{\makesubmittalpage}{
105 \clearpage
106 \; \text{A} thesis submitted to the Faculty and the Board of
107 Trustees of the Colorado School of Mines in partial
108 \; {
m fulfillment} of the requirements for the degree of
109 {\@degreelv} ({\@degreename}).
110
111 \vspace{2em}
112 \begin{flushleft}
113 Golden, Colorado\\[.5em]
114 Date \underline{\hspace{2in}}
115 \end{flushleft}
116
117 \vspace{.5em}
118 \begin{flushright}
119 Signed: \underline{\hspace{2in}}\\
120 {\c (2em)}
122 Signed: \underline{\hspace{2in}}\\
123 \begin{SingleSpace}
124 {\Qadvisor} \
125 Thesis Advisor\\[2em]
```

```
127
                                                           128
                                                           129 \@ifundefined{@coadvisor}
                                                           130 {
                                                           131 \vspace{2.5em}
                                                           132 }
                                                           133 {
                                                           134 Signed: \mbox{\normalfont Numberline(\hspace{2in}}\\
                                                           135 \begin{SingleSpace}
                                                           136 {\@coadvisor}\\
                                                           137 \; {\hbox{Thesis Advisor}}
                                                           138 \end{SingleSpace}
                                                           139 }
                                                           140
                                                           141 \end{flushright}
                                                          142
                                                           143 \geq flushleft
                                                           144 Golden, Colorado\\[.5em]
                                                           145 Date \underline{\hspace{2in}}
                                                           146 \end{flushleft}
                                                           147
                                                           148 \vspace{.5em}
                                                           149 \verb|\begin{flushright}|
                                                           150 Signed: \underline{\hspace{2in}}\\
                                                           152 \searrow SingleSpace
                                                           153 {\c}
                                                           154 \; \texttt{Professor} \; \; \texttt{and} \; \; \texttt{Head} \backslash \backslash
                                                           155 {\@department}
                                                           156 \end{SingleSpace}
                                                           157
                                                           158 \end{flushright}
                                                           159
                                                           160 \clearpage
                                                           161 }
                                                          We redifine the abstract environment. First, we need to save the text
                           abstract
                                                           162 \ensuremath{\location{\collect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@Body\@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstract}{\cllcollect@saveabstr
        \@saveabstract And saving the abstract
                                                           163 \newcommand{\@saveabstract}[1]{
                                                           164 \long\gdef\@abstract{#1}
                                                          ABSTRACT (title) is centered horizontally, 1 keyboard return below 1 inch top
\makeabstractpage
                                                           margin and in ALL UPPER CASE LETTERS. Each paragraph should be in-
                                                           dented.
                                                           166 \newcommand{\makeabstractpage}{
```

126 \end{SingleSpace}

```
167 \clearpage
                       168 \chapter*{Abstract}
                       169 \@abstract
                       170 \addcontentsline{toc}{chapter}{\abstractname}
                       171 \clearpage
                       172 }
                       We difine the acknowledgment environment. First, we need to save the text
       acknowledgment
                        173 \newenvironment{acknowledgment}{\Collect@Body\@saveacknowledgments}{}
                       And saving the acknowledgments
\@saveacknowledgments
                        174 \newcommand{\@saveacknowledgments}[1]{
                       175 \long\gdef\@acknowledgments{#1}
                       176 }
                       ACKNOWLEDGMENTS (Title) is centered horizontally, 1 keyboard return below
\makeacknowledgepage
                       1 inch top margin and in ALL UPPER CASE LETTERS
                       177 \newcommand{\makeacknowledgepage}{
                       178 \@ifundefined{@acknowledgments}{}{
                       179 \clearpage
                       180 \chapter*{Acknowledgments}
                       181 \@acknowledgments
                       182 \addcontentsline{toc}{chapter}{ACKNOWLEDGMENTS}
                       183 \clearpage
                       184 }
                       185 }
           dedication We difine the dedication environment. First, we need to save the text
                       186 \newenvironment{dedication}{\Collect@Body\@savededication}{}
     \@savededication And saving the dedication
                       187 \newcommand{\@savededication}[1]{
                       188 \long\gdef\@dedication{#1}
                       189 }
                       ACKNOWLEDGMENTS (Title) is centered horizontally, 1 keyboard return be-
  \makededicationpage
                       low 1 inch top margin and in ALL UPPER CASE LETTERS. Dedication Page:
                       A dedication page is optional and not frequently included in a thesis. However,
                       occasionally the thesis writer wants to dedicate the document to a professional
                       colleague, friend, or relative. A dedication typically expresses gratitude for some-
                       one's support. If a dedication page is included, it is placed at the end of the front
                       matter section, following the acknowledgments. Typically, a dedication page has
                       no title, it simply states, e.g., "For my father." Roman numeral page numbering
                       continues on the dedication page.
                       190 \newcommand{\makededicationpage}{
                       191 \@ifundefined{@dedication}{}{
                       192 \clearpage
```

193 \@dedication

```
194 \clearpage
            195 }
            196 }
            Redefine the generic chapter/appendix ToC entry typesetting.
\1@chapapp
            197 \renewcommand{\l@chapapp}[3]{%
            198 \ifnum \c@tocdepth >\m@ne
            199 \begin{SingleSpace}
            200 \cftchapterbreak
            201 \vskip \cftbeforechapterskip
            202 €
            203 \leftskip \cftchapterindent\relax
            204 %%%
                       \memRTLleftskip \cftchapterindent\relax
            205 \rightskip \@tocrmarg
            206 %%%
                       \memRTLrightskip \@tocrmarg
            207 \parfillskip -\rightskip
            208 %%%
                       \parfillskip -\memRTLrightskip
            209 \parindent \cftchapterindent\relax
            210 \@afterindenttrue
            211 \interlinepenalty\@M
            212 \leavevmode
            213 \let\@cftbsnum \cftchapterpresnum
            214 \let\@cftasnum \cftchapteraftersnum
            215 \let\@cftasnumb \cftchapteraftersnumb
            216 \def\@chapapp@head{#3}%
            217 \settowidth{\@tempdima}{\cftchapterfont\@chapapp@head}%
            218 \addtolength{\@tempdima}{\cftchapternumwidth}%
            219 \advance\leftskip \@tempdima \null\nobreak\hskip -\leftskip
                       \advance\memRTLleftskip \Otempdima \null\nobreak\hskip -\memRTLleftskip
            221 {\cftchapterfont {#1}}\nobreak
            222 \cftchapterfillnum{#2}}
            223 \end{SingleSpace}
            224 \fi}
            225 \renewcommand{\cftchapterdotsep}{\cftdotsep}
            226 \renewcommand{\cftchapterfont}{\normalfont\MakeTextUppercase}
            227 \renewcommand{\cftchapterpagefont}{\normalfont}
            228 \renewcommand{\cftchapterleader}{\cftdotfill{\cftchapterdotsep}}
            229 \renewcommand{\cftchaptername}{\chaptername\space}
            230 \renewcommand{\cftappendixname}{\appendixname\space}
            231 \renewcommand{\cftdotsep}{1}
            232 \% ^^A no extra space before the entry, or in the LoF/LoT
            233 \setlength{\cftbeforechapterskip}{\z@ plus \z@}
            234 \renewcommand{\insertchapterspace}{}
            235 % ^^A \renewcommand{\insertchapterspace}{
            236 % ^^A \addtocontents{lof}{\protect\addvspace{5pt}}} % previous default 10pt
            237 % ^^A \addtocontents{lot}{\protect\addvspace{5pt}}
            238 % ^^A }
```

\makecft \makecft generates Table of Contents, List of Figures, and List of Tables. TABLE

```
top margin and in ALL UPPER CASE LETTERS
                                                                                                                  239 \AtBeginDocument{
                                                                                                                  240 \ensuremath{ \mbox{ \sc o}} 140 \ensuremath{ \sc o} 140 \ensuremath{ \sc
                                                                                                                  241 \settocpreprocessor{chapter}{%
                                                                                                                  242 \let\tempf@rtoc\f@rtoc%
                                                                                                                  243 \def\f@rtoc{%When hyperref is used,
                                                                                                                  244 \texttt{\tempf@rtoc}} {\texttt{\tempf@rtoc}} {
                                                                                                                  246 \renewcommand{\cftchapterfont}{\normalfont}
                                                                                                                  247 }{}
                                                                                                                  248 }
                                                                                                                  249 \mbox{ } \mbox{makecft}{
                                                                                                                  250 \tableofcontents*
                                                                                                                  251 \clearpage
                                                                                                                  252 \listoffigures
                                                                                                                  253 \clearpage
                                                                                                                  254 \setminus listoftables
                                                                                                                  255 \clearpage
                                                                                                                  256 } % end \makecft
                                                                                                                                    We rename the headings for the toc, lof, lot, and the references.
                                                                                                                  257 \renewcommand{\abstractname}{ABSTRACT}
                                                                                                                  258 \renewcommand{\chaptername}{CHAPTER}
                                                                                                                  259 \renewcommand{\appendixname}{APPENDIX}
                                                                                                                  260 \renewcommand{\contentsname}{TABLE OF CONTENTS}
                                                                                                                  261 \renewcommand{\listfigurename}{LIST OF FIGURES}
                                                                                                                  262 \renewcommand{\listtablename}{LIST OF TABLES}
                                                                                                                  263 %% for REFERENCE section
                                                                                                                  264 \renewcommand{\bibname}{REFERENCES}
\cline{cont} \cl
                                                                                                                  265 \newcommand{\@dottedtocline@sec}[5]{%
                                                                                                                  266 \ifnum #1>\c@tocdepth \else
                                                                                                                  267 \begin{SingleSpace}
                                                                                                                  268 \vskip \z@ \@plus.2\p@
                                                                                                                  269 {\leftskip #2\relax \rightskip \@tocrmarg \parfillskip -\rightskip
                                                                                                                  270 \parindent #2\relax\@afterindenttrue
                                                                                                                  271 \interlinepenalty\@M
                                                                                                                  272 \ \text{leavevmode}
                                                                                                                  273 \ensuremath{\mbox{\tt 0}}{tempdima} \ensuremath{\mbox{\tt \#3}}{relax}
                                                                                                                  274 \advance\leftskip \@tempdima \null\nobreak\hskip -\leftskip
                                                                                                                  275 {#4}\nobreak
                                                                                                                  276 \leq \frac{\$\m@th}{\m}
                                                                                                                  277 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
                                                                                                                  278 mu$}\hfill
                                                                                                                  279 \nobreak
                                                                                                                  280 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}%
                                                                                                                  281 \par}
```

OF CONTENTS (Title) is centered horizontally, 1 keyboard return below 1 inch

```
282 \end{SingleSpace}%
                                     283 \fi}
         \lambda \lambda \lambda \text{ction} \lambda \lambda \text{ettion} \\ \lambda \text{page} \rangle \text{typesets the ToC entry for a \section heading.}
                                     284 \renewcommand{\@dotsep}{1}
                                     285 \renewcommand{\l@section}{
                                     286 \@dottedtocline@sec{1}{1.5em}{2.3em}
                                     287 }
                                     289 \renewcommand{\cfttablename}{\tablename\space}
           \ldfigure \ldfigure{\langle title \rangle}{\langle page \rangle} typesets the LoF entry for a \figure caption heading.
                                     Multiple line figure captions are single spaced.
                                     290 \let\oldl@figure=\l@figure
                                     291 \renewcommand{\l@figure}{\SingleSpacing\oldl@figure}
                                     \label{title} {\title} {\tit
              \l@table
                                     Multiple line table captions are single spaced.
                                     292 \let\oldl@table=\l@table
                                     293 \renewcommand{\l@table}{\SingleSpacing\oldl@table}
                                     3.2.3 Main Body
              \chapter
                                     294 \mbox{makechapterstyle{mineschapter}{%}}
                                     295 \setlength{\midchapskip}{.2\baselineskip}
                                     296 \setlength{\afterchapskip}{.2\baselineskip}
                                     297 \renewcommand{\chapnumfont}{\normalfont}
                                     298 \renewcommand{\chaptitlefont}{\normalfont}
                                     299 \renewcommand{\chapterheadstart}{}
                                     300 \renewcommand{\printchapternum}{}
                                     301 \renewcommand{\printchapternonum}{}
                                     302 \renewcommand{\printchaptername}{%
                                     303 \centerline{\chapnumfont\MakeTextUppercase{\@chapapp\ \thechapter}}}
                                     304 \renewcommand{\printchaptertitle}[1]{%
                                     305 \centering \vbox{\chaptitlefont\invpyr{\MakeTextUppercase{##1}}}
                                     306 }
                                     307 }
                                     308 \chapterstyle{mineschapter}
\reproduceinfo Information about the reproduced chapter. Including the author, year, organiza-
                                     tion, publisher.
                                     309 \newcommand{\reproduceinfo}[1]{
                                     310 \begin{center}
                                     311 #1\par
                                     312 \end{center}
                                     313 }
```

```
\reproduceabstract One single line of Abstract flused left.
                                                           314 \newcommand{\reproduceabstract}{
                                                           315 {\noindent Abstract\par}
                                                           316 }
                                                          Set the format for \footnote. One horizontal line to separate the text and the
                           \footnote
                                                           footnotes.
                                                           317 \AtBeginDocument{
                                                           318 \stlength{\footmarkwidth}{\z0}
                                                           319 \left\{ \int_{a}^{19} \left( \int_{a}^{
                                                           320 \setlength{\footparindent}{\footmarkwidth}
                                                           321 \renewcommand{\footnoterule}{%
                                                           322 \kern .5\baselineskip%
                                                           323 \hrule width \columnwidth \kern .5\baselineskip}
                                                         A new type of footnote command which use symbols instead of arabic numbers as
         \symbolfootnote
                                                           markers
                                                           325 \newcommand{\symbolfootnote}[2]{
                                                           326 \renewcommand{\thefootnote}{\fnsymbol{footnote}}
                                                           327 \footnote[#1]{#2}
                                                           328 \renewcommand{\thefootnote}{\arabic{footnote}}
                             \section Redefine \section, \subsection and \subsubsection.
                                                           330 \renewcommand{\section}{\@startsection{section}
                                                           331 {1} % level
                                                           332 {\z0} % indent from left margin
                                                           333 {.1ex} % skip above heading
                                                           334 {.1ex} % heading between title and text
                                                           335 {\normalfont\normalsize\bfseries}}
                                                           336 \renewcommand{\subsection}{\@startsection{subsection}
                                                           337 {1} % level
                                                           338 {\z@} % indent from left margin
                                                           339 {.1ex} % skip above heading
                                                           340 {.1ex} % heading between title and text
                                                           341 {\normalfont\normalsize\bfseries}}
                                                           342 \renewcommand{\subsubsection}{\@startsection{subsubsection}
                                                           343 {1} % level
                                                           344 {\z0} % indent from left margin
                                                           345 {.1ex} % skip above heading
                                                           346 {.1ex} % heading between title and text
                                                           347 {\normalfont\normalsize\bfseries}}
                          longtable
                                                           348 \AtBeginDocument{
                                                           349 \@ifpackageloaded{longtable}{
                                                           350 \stlength{\LTcapwidth}{\linewidth}
```

351

```
352 }{}
353 }
```

3.2.4 Back Matter

```
Change the indent of References if natbib package is loaded.
```

```
354 \AtBeginDocument{
355 \@ifpackageloaded{natbib}{
356 \setlength{\bibhang}{\parindent}
357 \renewcommand{\bibpreamble}{\vspace{\parskip}}
358 }{}
359 }
```

\bibliography

```
360 \let\oldbibliography=\bibliography
361 \renewcommand{\bibliography}[1]{
362 \begin{SingleSpace}
363 \oldbibliography{#1}
364 \end{SingleSpace}
365 }
```

3.2.5 Others

388 }

landscape We define the landscape to handle the page numbering in landscape mode.

```
366 \AtBeginDocument{
367 \@ifpackageloaded{pdflscape}{
368 \newcommand{\Lpagenumber}{\ifdim\textwidth=\linewidth\else\bgroup
369 \dimendef\margin=0 %use \margin instead of \dimen0
370 \ifodd\value{page}\margin=\oddsidemargin
371 \else\margin=\evensidemargin
372 \fi
373 \raisebox{\dimexpr -\topmargin-\headheight-\headsep-0.5\linewidth}[0pt][0pt]{%
375 \line{\text{y0}}{\tilde{90}}{\tilde{9}}}
376 \egroup\fi
377 }
378 \@ifpackageloaded{everypage}{
379 \AddEverypageHook{\Lpagenumber}%
380 \let\oldlandscape=\landscape
381 \let\endoldlandscape=\endlandscape
382 \renewenvironment{landscape}{
383 \oldlandscape\pagestyle{empty}\begin{vplace}}{
384 \end{vplace}\endoldlandscape
385 \pagestyle{plain}}
386 }{}
387 }{}
```