## The mines-thesis class $^{\ast}$

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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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<sup>\*</sup>This document corresponds to mines-thesis v1.0, dated 2020/01/10.

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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}

When using line breaks in thesis title, chapter title, or section titles, use \protect\\ instead of \\. This is because these titles use both center environment and \MakeTextUppercase. \MakeLowercase are robust but they have moving arguments (see \protect).

## 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.

```
1 \RequirePackage{ifthen}
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{13} \left( 11in \right) = 13
```

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

- 14 \setlrmarginsandblock{1in}{\*}{\*}
- 15 \setulmarginsandblock{1in}{\*}{\*}

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  $\setheadfoot{\onelineskip}{2\onelineskip}$
- 17 \setheaderspaces{\*}{2\onelineskip}{\*}

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

 $18 \setminus DoubleSpacing$ 

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.
- $24 \text{\tolerance=1}$
- $25 \ensuremath{\,{}^{\mbox{-}}} \ensuremath{\,{}^{\mbox{-}$
- $26 \hyphenpenalty=10000$
- 27 \hbadness=10000

We alse rename the headings for the toc, lof, lot, and the references. ALL UPPER CASE LETTERS are used.

- $28 \mbox{ \normand{\abstractname}{ABSTRACT}}$
- 29 \renewcommand{\chaptername}{CHAPTER}
- 30 \renewcommand{\appendixname}{APPENDIX}
- 31 \renewcommand{\contentsname}{TABLE OF CONTENTS}
- 32 \renewcommand{\listfigurename}{LIST OF FIGURES}
- 33 \renewcommand{\listtablename}{LIST OF TABLES}
- 34 \newcommand{\acknowledgmentname}{ACKNOWLEDGMENTS}
- 35 \renewcommand{\bibname}{REFERENCES}

#### 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.

First We define the macros for the informations and set their default values.

```
\title
       \author
                 36 \renewcommand{\year}[1]{\gdef\@year{#1}}
         \vear
                 37 \end{\eqree} [2] {\eqreelv{#1}\eqree} \eqreelv{#2}}
       \degree
                 38 \newcommand{\advisor}[1]{\gdef\@advisor{#1}}
       \advisor
                 39 \newcommand{\coadvisor}[1]{\gdef\@coadvisor{#1}}
                 40 \newcommand{\department}[1]{\gdef\@department{#1}}
    \coadvisor
                 41 \newcommand{\departmenthead}[1]{\gdef\@departmenthead{#1}}
   \department
\departmenthead
                 42 \gdef\@author{Student Name}
                 43 \gdef\@title{This is the first line of a medium length title,
                 44 \protect\\ this is the second line}
                 45 \gdef\@year{2020}
                 46 \gdef\@degreelv{Doctor of Philosophy}
                 47 \gdef\@degreename{Computer Science}
                 48 \gdef\@advisor{Dr. Main Advisor}
                 49 \gdef\@department{Department of XXXXX}
                 50 \gdef\@departmenthead{Dr. Department Head}
```

Then we design the title page.

#### \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).

```
51 \neq 0 (newboolean{auto} % for auto pyramid
52 \setboolean{auto}{false}
53 \DeclareRobustCommand{\invpyr}[1]{
54 \vbox{}{
55 \vspace{10pt}
56 \hsize=\textwidth
57 \neq 57 
58 \emergencystretch=1in
59 \parshape 6
60 0.01\textwidth .98\textwidth
61 \text{ 0.1} \text{textwidth .8} \text{textwidth}
62 0.15\textwidth .7\textwidth
63 0.2\textwidth .6\textwidth
64 0.25\textwidth .5\textwidth
65 0.3\textwidth .4\textwidth
66 \leftskip=\z@ plus 1fil
67 \rightskip=\z@ plus -1fil
68 \parfillskip=\z@ plus 2fil
69 #1\par
70 }
71 }
72 \newcommand{\autotitle}{\setboolean{auto}{true}}
73 \newcommand{\maketitlepage}{
74 \clearpage
75 \begin{vplace}
76 \centering
```

```
77 \ifthenelse{\boolean{auto}}
78 {\invpyr{\MakeTextUppercase{\Ctitle}}}
79 {\Ctitle}
80 \end{vplace}
81 \begin{center}
82 by\\
83 \Cauthor
84 \end{center}
85 \clearpage
86 } % end of \maketitlepage
```

Next, the copyright page.

#### \makecopyrightpage

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

```
87 \newcommand{\makecopyrightpage}{
88 \clearpage
89 \begin{vplace}[0.8]
90 \centering
91 Copyright~by~\@author~\@year\\
92 All~Rights~Reserved
93 \end{vplace}
94 \clearpage
95 } % end of \makecopyrightpage
```

Next, the submittal page.

#### \makesubmittalpage

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.

```
96 \newcommand{\makesubmittalpage}{
97 \clearpage
98 A thesis submitted to the Faculty and the Board of
99 Trustees of the Colorado School of Mines in partial
100 fulfillment of the requirements for the degree of
101 {\@degreelv} ({\@degreename}).
102 \vspace{2em}
103 \begin{flushleft}
104 Golden, Colorado\\[.5em]
105 Date \underline{\hspace{2in}}
106 \end{flushleft}
107 \vspace{.5em}
108 \begin{flushright}
109 Signed: \underline{\hspace{2in}}\\
110 {\c (\c ) \c (\c )}
111 Signed: \underline{\hspace{2in}}\\
112 \begin{SingleSpace}
113 {\@advisor}\\
114 Thesis Advisor\\[2em]
```

```
115 \end{SingleSpace}
                   116 \@ifundefined{@coadvisor}{
                   117 \vspace{2.5em}
                   118 }{
                   119 Signed: \label{line} \
                   120 \begin{SingleSpace}
                   121 {\@coadvisor}\\
                   122 Thesis Advisor
                   123 \end{SingleSpace}
                   124 }
                   125 \end{flushright}
                   126 \begin{flushleft}
                   127 Golden, Colorado\\[.5em]
                   128 Date \underline{\hspace{2in}}
                   129 \end{flushleft}
                   130 \vspace{.5em}
                   131 \begin{flushright}
                   132 Signed: \label{line} \
                   133 \begin{SingleSpace}
                   134 {\c equation} \
                   135 Professor and Head\\
                   136 {\@department}
                   137 \end{SingleSpace}
                   138 \end{flushright}
                   139 \clearpage
                   140 } % end of \makesubmittalpage
                       Next, the abstract page.
                   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.
                   We redifine the abstract environment to save the text.
         abstract
  \@saveabstract
                   141 \newcommand{\@saveabstract}[1]{\long\gdef\@abstract{#1}}
                   142 \renewenvironment{abstract}{\Collect@Body\@saveabstract}{}
                   Abstract will show in the table of contents.
                   143 \mbox{ } \mbox{newcommand{\mbox{makeabstractpage}{}} 
                   144 \clearpage
                   145 \chapter*{\abstractname}
                   146 \@abstract
                   147 \addcontentsline{toc}{chapter}{\abstractname}
                   148 \clearpage
                   149 } % end of \makeabstractpage
                       Next, the table of contents and lists.
         \makecft \makecft generates Table of Contents, List of Figures, and List of Tables.
```

```
\tableofcontents TABLE OF CONTENTS (Title) is centered horizontally, 1 keyboard return below
                  1 inch top margin and in ALL UPPER CASE LETTERS. Do not list the Table
                  of Contents in the Table of Contents page, so \tableofcontents* is used.
                  150 \renewcommand{\cftchapterdotsep}{\cftdotsep}
                  151 \renewcommand{\cftchapterfont}{\normalfont\MakeTextUppercase}
                  152 \renewcommand{\cftchapterpagefont}{\normalfont}
                  153 \renewcommand{\cftchapterleader}{\cftdotfill{\cftchapterdotsep}}
                  154 \renewcommand{\cftchaptername}{\chaptername\space}
                  155 \renewcommand{\cftappendixname}{\appendixname\space}
                  156 \renewcommand{\cftdotsep}{1}
                  157 \% ^A no extra space before the entry, or in the lof/lot
                  158 \setlength{\cftbeforechapterskip}{\z0 plus \z0}
                  159 \renewcommand{\insertchapterspace}{}
                  160 % ^^A \renewcommand{\insertchapterspace}{
                  161 % ^^A \addtocontents{lof}{\protect\addvspace{5pt}} % previous default 10pt
                  162 % ^^A \addtocontents{lot}{\protect\addvspace{5pt}}
                  163 % ^^A }
                 Redefine the generic chapter/appendix toc entry typesetting.
     \1@chapapp
                  164 \renewcommand{\l@chapapp}[3]{%
                  165 \ifnum \c@tocdepth >\m@ne
                  166 \begin{SingleSpace}
                  167 \cftchapterbreak
                  168 \vskip \cftbeforechapterskip
                  170 \leftskip \cftchapterindent\relax
                             \memRTLleftskip \cftchapterindent\relax
                  171 %%%
                  172 \rightskip \@tocrmarg
                  173 %%%
                             \memRTLrightskip \@tocrmarg
                  174 \parfillskip -\rightskip
                             \parfillskip -\memRTLrightskip
                  175 %%%
                  176 \parindent \cftchapterindent\relax
                  177 \@afterindenttrue
                  178 \interlinepenalty\@M
                  179 \leavevmode
                  180 \let\@cftbsnum \cftchapterpresnum
                  181 \let\@cftasnum \cftchapteraftersnum
                  182 \let\@cftasnumb \cftchapteraftersnumb
                  183 \def\@chapapp@head{#3}%
                  184 \settowidth{\@tempdima}{\cftchapterfont\@chapapp@head}%
                  185 \addtolength{\@tempdima}{\cftchapternumwidth}%
                  186 \advance\leftskip \@tempdima \null\nobreak\hskip -\leftskip
                             \advance\memRTLleftskip \@tempdima \null\nobreak\hskip -\memRTLleftskip
                  188 {\cftchapterfont {#1}}\nobreak
                  189 \cftchapterfillnum{#2}}
                  190 \end{SingleSpace}
```

 $\verb|\colored| less Red if in example 1 the original ltsect.dtx | \colored| less Red if in example 2 the less Red if in example 3 the less Red if in example 4 the$ 

191 \fi}

```
192 \newcommand{\@dottedtocline@sec}[5]{%
                          193 \ifnum #1>\c@tocdepth \else
                          194 \verb|\begin{SingleSpace}|
                          195 \vskip \z@ \@plus.2\p@
                          196 {\leftskip #2\relax \rightskip \@tocrmarg \parfillskip -\rightskip
                          197 \parindent #2\relax\@afterindenttrue
                          198 \interlinepenalty\@M
                          199 \leavevmode
                          200 \@tempdima #3\relax
                          201 \advance\leftskip \@tempdima \null\nobreak\hskip -\leftskip
                          202 {#4}\nobreak
                          203 \leaders\hbox{$\m@th
                          204 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
                          205 \text{ mu}}\  \hfill
                          206 \nobreak
                          207 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}%
                          208 \par}
                          209 \end{SingleSpace}%
                          210 \fi}
                          211 \renewcommand{\cftfigurename}{\figurename\space}
                          212 \renewcommand{\cfttablename}{\tablename\space}
                         \langle title \rangle + \langle page \rangle typesets the lof entry for a \figure caption heading.
\l@figure
                          Multiple line figure captions are single spaced.
                          213 \let\oldl@figure=\l@figure
                          214 \renewcommand{\l@figure}{\SingleSpacing\oldl@figure}
 \lambda \lambda \lambda \table \lambda \table \tab
                          Multiple line table captions are single spaced.
                          215 \let\old1@table=\l@table
                          216 \renewcommand{\l@table}{\SingleSpacing\oldl@table}
                          217 \verb| AtBeginDocument{|} \{
                          218 \@ifpackageloaded{hyperref}{
                          219 \settocpreprocessor{chapter}{%
                          220 \let\tempf@rtoc\f@rtoc%
                          221 \def\f@rtoc{%When hyperref is used,
                          222 \texttt{\tempf@rtoc}} {\texttt{\tempf@rtoc}} {\texttt{\tempf@rtoc}} %
                          224 \renewcommand{\cftchapterfont}{\normalfont}
                          225 }{}
                          226 }
                          227 \mbox{ \newcommand{\makecft}{}}
                          228 \tableofcontents*
                          229 \clearpage
                          230 \listoffigures
                          231 \clearpage
                          232 \setminus listoftables
                          233 \clearpage
```

```
234 } % end of \makecft
                        \lambda \lambda \convertex \lambda \lambda \text{gage}\} \text{typesets the toc entry for a \section heading.}
                                                  235 \mbox{ } \mbox{enewcommand} \mbox{ } \mbox
                                                  236 \renewcommand{\l@section}{
                                                  237 \@dottedtocline@sec{1}{1.5em}{2.3em}
                                                  238 }
                                                  ACKNOWLEDGMENTS (Title) is centered horizontally, 1 keyboard return below
  \makeacknowledgepage
                                                  1 inch top margin and in ALL UPPER CASE LETTERS.
                                                  We difine the acknowledgment environment. First, we need to save the text.
               acknowledgment
\@saveacknowledgments
                                                  239 \newcommand{\@saveacknowledgments}[1]{
                                                  240 \long\gdef\@acknowledgments{#1}}
                                                  241 \newenvironment{acknowledgment}{\Collect@Body\@saveacknowledgments}{}
                                                  Acknowledgment page is not required.
                                                  242 \newcommand{\makeacknowledgepage}{
                                                  243 \@ifundefined{@acknowledgments}{}{
                                                  244 \clearpage
                                                  245 \chapter*{\acknowledgmentname}
                                                  246 \@acknowledgments
                                                  247 \addcontentsline{toc}{chapter}{\acknowledgmentname}
                                                  248 \clearpage}
                                                  249 } % end of \makeacknowledgepage
                                                  Dedication Page: A dedication page is optional and not frequently included in a
    \makededicationpage
                                                  thesis. However, occasionally the thesis writer wants to dedicate the document
                                                  to a professional colleague, friend, or relative. A dedication typically expresses
                                                  gratitude for someone'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.
                        dedication We difine the dedication environment. First, we need to save the text.
           \@savededication
                                                  250 \newcommand{\@savededication}[1]{
                                                  251 \long\gdef\@dedication{#1}}
                                                  252 \newenvironment{dedication}{\Collect@Body\@savededication}{}
                                                  253 \newcommand{\makededicationpage}{
                                                  254 \ensuremath{\texttt{Odedication}}{}
                                                  255 \clearpage
```

256 \@dedication 257 \clearpage}

258 } % end of \makededicationpage

```
259 \mbox{ } \mbox{makefrontmatter}{
                    260 \pagenumbering{roman}
                    261 \pagestyle{empty}
                    262 \maketitlepage
                    263 \makecopyrightpage
                    264 \pagestyle{plain}
                    265 \setcounter{page}{2}
                    266 \makesubmittalpage
                    267 \makeabstractpage
                    268 \makecft
                    269 \makeacknowledgepage
                    270 \makededicationpage
                    271 \pagenumbering{arabic}
                    272 \setcounter{page}{1}
                    273 } % end of \makefrontmatter
                    3.2.3 Main Body
          \chapter
                    274 \makechapterstyle{mineschapter}{%
                    275 \left[\frac{2\pi}{2}\right]
                    276 \setlength{\afterchapskip}{.2\baselineskip}
                    277 \renewcommand{\chapnumfont}{\normalfont}
                    278 \renewcommand{\chaptitlefont}{\normalfont}
                    279 \renewcommand{\chapterheadstart}{}
                    280 \renewcommand{\printchapternum}{}
                    281 \renewcommand{\printchapternonum}{}
                    282 \renewcommand{\printchaptername}{%
                    283 \centerline{\chapnumfont\MakeTextUppercase{\@chapapp\ \thechapter}}}
                    284 \renewcommand{\printchaptertitle}[1]{%
                    285 \verb|\centering \wbox{\chaptitlefont\invpyr{\MakeTextUppercase{$\#1$}}}
                    286 }
                    287 }
                    288 \verb|\chapterstyle{mineschapter}|
    \reproduceinfo Information about the reproduced chapter. Including the author, year, organiza-
                    tion, publisher.
                    289 \newcommand{\reproduceinfo}[1]{
                    290 \begin{center}
                    291 #1\par
                    292 \end{center}
                    293 }
\reproduceabstract One single line of Abstract flused left.
                    294 \newcommand{\reproduceabstract}{
                    295 {\noindent Abstract\par}
                    296 }
```

Call single command \makefrontmatter to generate all front matters.

```
\footnote Set the format for \footnote. One horizontal line to separate the text and the
                  footnotes.
                  297 \AtBeginDocument{
                  298 \setlength{\footmarkwidth}{\z0}
                  299 \left\{ -\right\}
                  300 \setlength{\footparindent}{\footmarkwidth}
                  301 \ensuremath{\mbox{\sc hottosterule}} \ensuremath{\mbox{\sc hottosterule}} \ensuremath{\mbox{\sc hottosterule}}
                  302 \kern .5\baselineskip%
                  303 \hrule width \columnwidth \kern .5\baselineskip}
                  A new type of footnote command which use symbols instead of arabic numbers as
\symbolfootnote
                  305 \newcommand{\symbolfootnote}[2]{
                  306 \renewcommand{\thefootnote}{\fnsymbol{footnote}}
                  307 \footnote[#1]{#2}
                  308 \renewcommand{\thefootnote}{\arabic{footnote}}
                  309 }
       \section Redefine \section, \subsection and \subsubsection.
                  310 \renewcommand{\section}{\@startsection{section}
                  311 {1} % level
                  312 {\z0} % indent from left margin
                  313 {.1ex} % skip above heading
                  314 {.1ex} % heading between title and text
                  315 {\normalfont\normalsize\bfseries}}
                  316 \renewcommand{\subsection}{\@startsection{subsection}
                  317 {1} % level
                  318 {\z0} % indent from left margin
                  319 {.1ex} % skip above heading
                  320 {.1ex} % heading between title and text
                  321 {\normalfont\normalsize\bfseries}}
                  322 \renewcommand{\subsubsection}{\@startsection{subsubsection}
                  323 {1} % level
                  324 {\z0} % indent from left margin
                  325 {.1ex} % skip above heading
                  326 {.1ex} % heading between title and text
                  327 {\normalfont\normalsize\bfseries}}
      longtable
                  328 \AtBeginDocument{
                  329 \@ifpackageloaded{longtable}{
                  330 \setlength{\LTcapwidth}{\linewidth}
                  331
                  332 }{}
                  333 }
```

#### 3.2.4 Back Matter

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

334 \AtBeginDocument{
335 \@ifpackageloaded{natbib}{
336 \setlength{\bibhang}{\parindent}
337 \renewcommand{\bibpreamble}{\vspace{\parskip}}
338 }{
339 }

\bibliography

340 \let\oldbibliography=\bibliography
341 \renewcommand{\bibliography}[1]{
342 \begin{SingleSpace}
343 \oldbibliography{#1}
344 \end{SingleSpace}
345 }
```

#### **3.2.5** Others

368 }

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

```
346 \AtBeginDocument{
347 \@ifpackageloaded{pdflscape}{
348 \mbox{$\arraycommand{\Lpagenumber}{\dim\textwidth=\linewidth\else\bgroup}} \\
349 \dimendef\margin=0 %use \margin instead of \dimen0
350 \ifodd\value{page}\margin=\oddsidemargin
351 \else\margin=\evensidemargin
352 \fi
353 \raisebox{\dimexpr -\topmargin-\headheight-\headsep-0.5\linewidth}[0pt][0pt]{%
354 \rlap{\hspace{\dimexpr \margin+\textheight+\footskip}%
355 \line{\text{y0}}{\tilde{90}}{\tilde{9}}}
356 \egroup\fi
357 }
358 \@ifpackageloaded{everypage}{
359 \AddEverypageHook{\Lpagenumber}%
360 \let\oldlandscape=\landscape
361 \let\endoldlandscape=\endlandscape
362 \renewenvironment{landscape}{
363 \oldlandscape\pagestyle{empty}\begin{vplace}}{
364 \end{vplace}\endoldlandscape
365 \pagestyle{plain}}
366 }{}
367 }{}
```