The \texttt{uwathes} class

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Version 1.1a, 1999/12/06

Contents

1 Introduction ........................................... 1
2 Implementation ........................................... 1
3 Options .............................................. 2
4 Commands and environments .............................. 2
  4.1 Page dimensioning commands ........................... 2
  4.2 Standard AMS stuff .................................. 3
  4.3 Titlepage commands and environments .................. 4
  4.4 Front matter, index and bibliography environments ... 6
  4.5 Sectioning commands .................................. 9
5 A sample thesis master file ................................ 13
6 The front matter environments ............................ 15

Bibliography ............................................. 16
Index .................................................... 17
Change History ........................................... 21

1 Introduction

The file \texttt{uwathes.dtx} is the master file for the \LaTeX{} class, \texttt{uwathes}, which provides a class for writing theses for \LaTeX{} users in the Department of Mathematics & Statistics at the University of Western Australia. It is built on the standard \LaTeX{} \texttt{book} class with option \texttt{a4paper}. It provides a document class for typesetting theses that complies with specifications of the University of Western Australia. The author wishes to thank Ivano Pinneri, whose thesis master file provided an excellent starting point for the creation of this document class.

2 Implementation

The usual name, date, and version information.

\begin{verbatim}
1 \typeout{uwathes 1.1a}
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesClass{uwathes}[1999/12/06 v1.1a]
\end{verbatim}

We build the class \texttt{uwathes} on top of \LaTeX{}’s \texttt{book} class with option \texttt{a4paper}.  

1
3 Options

Since the uwathes class is built on \LaTeX's book class it inherits all the usual book options, and all the usual settings, except that the default paper size option in the uwathes class is a4paper. In particular, this means that the oneside and twoside options of the book class are available, and that the default setting is twoside.

Aside from these inherited options, the uwathes class provides the following options:

honours This option is experimental. Undoubtedly, it could do with some tweaking, but should be adequate, since the restrictions on Honours Dissertations are somewhat looser than PhD theses. By default: not applied.

library Set the left margin to 4 cm and the right margin to 2 cm, to fulfil requirements of the University of Western Australia’s library (for binding). By default: applied.

nolibrary Centre the text laterally so that left and right margins are both 3 cm. By default: not applied.

4 Commands and environments

4.1 Page dimensioning commands

The \calclayout command determines the value of \textwidth, \topmargin and \oddsidemargin, from the values of \paperheight, \textheight, \textbodyheight, \textheight, \headheight, \headsep, \footskip and \textwidth. It is loosely based on a command from the amsbook class. When the library option is selected (it is selected by default; deselect it with the nolibrary option) the text is shifted right 1 cm so that the left margin is the University of Western Australia library’s required 4 cm (so long as the user has not changed the setting of \textwidth below).

\def\calclayout{\global\textheight\textbodyheight
\global\advance\textheight \headheight
\global\advance\textheight \headsep
\global\advance\textheight \footskip
\global\oddsidemargin\paperwidth
Now we set the page parameters. We introduce a new dimensional parameter \textbodyheight which is the sum of \headheight, \headsep, \textheight and \footskip, i.e. \textbodyheight is \pageheight minus the top and bottom margins. We leave \headsep and \footskip with the values set by the book. The parameter \headheight is set to 2 \baselineskip by default. We set \textbodyheight to be 4 cm less than \paperheight and \textwidth to be 6 cm less than \paperwidth. With these settings the \calclayout command centres the text so that the top and bottom margins are each 2 cm. If no\library has been selected the text is also centred laterally so that the left and right margins are each 3 cm; by default, however, the left margin is increased by 1 cm and the right margin is decreased by 1 cm. In this way, we comply with the wishes of the University of Western Australia library which specifies that the margin near the binding must be at least 4 cm and other margins at least 2 cm, and the pagebreaks occur in the same place when the option no\library is selected. If the user specifies the oneside option the setting of \evensidemargin (the left margin on even-numbered pages) is ignored. By default, (as with the standard \LaTeX book the twoside option is selected. It is not expected that the user will need to change the page parameters in any way, but if she must the only safe ones to adjust are \textbodyheight and \textwidth, and perhaps \headsep and \footskip. These are dimensional parameters; use \LaTeX’s \setlength command to modify them. After modifying any or all of these issue a \calclayout command. Ordinarily, one changes \paperheight and \textheight by choosing a \documentclass option e.g. letterpaper (the default is a4paper).

4.2 Standard AMS stuff

We ensure that the AMS-\LaTeX packages amsmath [1], amsfonts and amsthm [3] are loaded. The latter of these provides more developed theorem environments than standard \LaTeX. You get still more if you use the \uwamaths package [4].
The proof environment is redefined to give a \textbf{bold} header (it’s done in the same way as the \texttt{uwamaths} package \cite{4}).

\begin{verbatim}
\RequirePackage{amsmath}\relax
\ifx\relax\mathfrak \@xp\@gobbletwo \else \let\mathfrak\relax \fi
\RequirePackage{amsfonts}\relax
\RequirePackage{amsthm}\relax
\renewenvironment{proof}[1][\proofname]{\par
   \normalfont
   \topsep6\p@\@plus6\p@ \trivlist
   \item\[
   \@addpunct{.}\] \ignorespaces
}{%\qed\endtrivlist%
\}%
\end{verbatim}

The following \texttt{AMS-LaTeX} command tells \LaTeX{} to allow breaks within maths displays but to avoid them as much as possible.

\begin{verbatim}
\allowdisplaybreaks[1]
\end{verbatim}

\section{Titlepage commands and environments}

Now we set up commands for the titlepage. The commands \texttt{\title}, \texttt{\author} and \texttt{\date} are used in the usual way. The command \texttt{\thismonth} macro is essentially \texttt{\today} without the day, and may be used within \texttt{\date}. The \texttt{\author} and \texttt{\title} commands are straight from the \texttt{amsbook} class.

\begin{verbatim}
\renewcommand{\title}[2][2][]{\gdef\shorttitle{#1}\gdef\@title{#2}}
\edef\title{\@nx\@dblarg \@xp\@nx\csname\string\title\endcsname}
\renewcommand{\author}[2][2][]{\gdef\shortauthors{#1}\gdef\authors{#2}}
\edef\author{\@nx\@dblarg \@xp\@nx\csname\string\author\endcsname}
\let\shortauthors\@empty \let\authors\@empty
\def\thismonth{\ifcase\month\or January\or February\or March\or April\or May\or June\or July\or August\or September\or October\or November\or December\fi}
\end{verbatim}

Now we provide commands \texttt{\dept}, \texttt{\institution} and \texttt{\degree}. The user will probably not need to change these from their default values. They are used just once in the \texttt{\thanks} command.

\begin{verbatim}
\newcommand{\dept}[1]{\gdef\department{#1}}
\newcommand{\institution}[1]{\gdef\theinstitution{#1}}
\newcommand{\degree}[1]{\gdef\thedegree{#1}}
\renewcommand{\thanks}[1]{\let\thankses\@empty \let\authors\@empty \g@addto@macro\thankses{\thanks{#1}}}
\dept{Department of Mathematics \& Statistics}
\institution{The University of Western Australia}
\if@honours
\degree{Bachelor Science with Honours}
\else
\degree{Doctor of Philosophy}
\fi
\end{verbatim}
4. COMMANDS AND ENVIRONMENTS

The value of \thanks is set in the titlepage by the \maketitle command. The \maketitle command itself, is a simplified version of the one from the book class.
4.4 Front matter, index and bibliography environments

We now create the abstract, acknowledgements, dedication, preface, theglossary and thesymbols environments. The preface environment is not expected to have wide usage; it has been included only because one user requested it.

Analogous to the commands \makeglossary, \glossaryentry and \glossary, we define \makesymbols, \symbolsentry and \symbols commands for gen-
4. Commands and Environments

Generating a List of Symbols. Thus a command \texttt{\textbackslash makesymbols} in the preamble causes the opening of a \texttt{.sym} file. Then \texttt{\textbackslash symbols} causes \texttt{\textbackslash symbolsentry} to be written to the \texttt{.sym} file. It is then up to the user to create from the \texttt{.sym} file a \texttt{.smb} file that contains a \texttt{thesymbols} environment conceivably by creating an appropriate \texttt{.ist} (indexstyle) file and then running MakeIndex with the appropriate options. To cause the \texttt{.smb} file to be included in a document the user issues a \texttt{\textbackslash printsymbols} command. See a bit later below.

\begin{verbatim}
def \makesymbols{\%
  \newwrite\@symbolsfile
  \immediate\openout\@symbolsfile=\jobname.sym
  \def\symbols{\@bsphack\begingroup
    \@sanitize
    \@wrsymbols}
  \typeout{Writing symbols file \jobname.sym }%
  Opening the write channel should be done only once since on some operating systems multiple opens are forbidden and in any case it is useless; so we turn this into a no-op after use. (The previous comment is taken straight from a similar one in \cite{2}.)
  \let\makesymbols\@empty
}
def \@onlypreamble\makesymbols
  \def\@wrsymbols#1{%
    \protected\write\@symbolsfile{}
    \{\string\symbolsentry{#1}{\thepage}\%
    \endgroup
  \}
  \let\symbols{\@bsphack\begingroup\@sanitize@index}
\end{verbatim}

We provide \texttt{\textbackslash printglossary} and \texttt{\textbackslash printsymbols} commands, analogous to \texttt{\textbackslash printindex}.

\begin{verbatim}
\newcommand\printglossary{\@input{\jobname.gls}}%
\newcommand\printsymbols{\@input{\jobname.smb}}%
\end{verbatim}

We redefine the \texttt{\textbackslash listoffigures} and \texttt{\textbackslash listoftables} commands, and the \texttt{\textbackslash thebibliography} and \texttt{\textbackslash theindex} environments to add a contents line to the table of contents. Since we prefer headlines not to be entirely uppercase, uses of \texttt{\textbackslash MakeUppercase} for (headline) marks have also been deleted. The \LaTeX\ book class doesn’t issue marks when the \texttt{\textbackslash chapter*} macro is used – from the code below one can see an explicit use of \texttt{\textbackslash @mkboth} in each of \texttt{\textbackslash listoffigures}, \texttt{\textbackslash listoftables}, \texttt{\textbackslash thebibliography} and \texttt{\textbackslash theindex}. This serves as a warning to users that \texttt{\textbackslash chapter*} is really a low-level command and should normally be used in the make-up of higher level commands in the \emph{preamble} or a user’s personal macros file.

\begin{verbatim}
\renewcommand\listoffigures{\%
  \if@twocolumn
    \@restonecoltrue\onecolumn
  \else
\end{verbatim}
In case you want an index we have the following code (also from the amsbook class).

\newcommand{\seename}{see also}%
\newcommand{\see}[2]{{\em \seename} #1}%
\newcommand{\printindex}{\@input{\jobname.ind}}%

For convenience we provide \index, \gloss and \symb as shorthand for indexing, glossary and symbols listing commands to deal with the most usual way we would use \index, \glossary and \symbols e.g.

\index{gnat} abbreviates \texttt{gnat\index{gnat}}
\gloss{gnat} abbreviates \texttt{\emph{gnat}\glossary{gnat}}
\symb{=} abbreviates \texttt{=}\symbols{=}

The abbreviation \symb assumes that the symbol is a math-mode symbol – don’t use it, if your symbol is not a math-mode symbol. Also, don’t use \symb if its argument has arguments.

\newcommand{\index}[1]{#1\index{#1}}
\newcommand{\gloss}[1]{\emph{#1}\glossary{#1}}
\newcommand{\symb}[1]{#1\symbols{#1}}

4. Sectioning commands

Now we set up sections and chapters headers in the style of the amsbook class. The macros are straight from the amsbook class except that for the chapterhead macros the setting of \topskip was removed ... since besides wasting paper this upset the \topskip on subsequent pages.

\newdimen{linespacing}
\normalsize
\setlength{\baselineskip}{\linespacing}
\normalparindent
\setlength{\normalparindent}{18pt}
\def{\makechapterhead#1}{%}
\begingroup
\fontsize{18}{18}\bfseries\centering
#1\par
\begingroup
\hspace{-\leftskip}
\leavevmode
\vspace{3pc}
\vspace{-\normalbaselineskip}
\vspace{-\topskip}
\vbox to\z@{
\centerline{\normalsize\mdseries
\uppercase{\chaptername}\enspace{\thechapter}
}\enspace
\vskip 3pc}}\hspace{-\leftskip}\par
\endgroup
\par
\endgroup
\skip@34\p@\vspace{-\normalbaselineskip}
\vspace{-\topskip}
\vbox to\z@{
\centerline{\normalsize\mdseries
\uppercase{\chaptername}\enspace{\thechapter}
}\enspace
\vskip 3pc}}\hspace{-\leftskip}\par
\endgroup
To get nice page headers we use the \texttt{fancyhdr} package.

\begin{verbatim}
\RequirePackage{fancyhdr}
\addtolength{\headwidth}{5truemm}
\head\{\fancyplain{\hskip-5mm\bfseries\thepage}{\bfseries\thepage}\}
\chead{}\rhead\{\fancyplain{}{\sffamily\slshape\leftmark}\}
\cfoot{}
\pagestyle{fancyplain}
\renewcommand\chaptermark[1]{\markboth{\ifnum \c@secnumdepth >\m@ne \if@mainmatter \@chapapp \thechapter. \% \fi \fi \#1}}\renewcommand\sectionmark[1]{\markright{\ifnum \c@secnumdepth >\z@ \thesection. \% \fi \#1}}
\end{verbatim}
We redefine \frontmatter and \mainmatter so that they also change the pagestyle. The user should never need to use \frontmatter (it is used in the \maketitle command) but should use \mainmatter to specify the start of the thesis text.

\renewcommand\frontmatter{\if@openright \cleardoublepage \else \clearpage \fi \@mainmatterfalse \pagestyle{plain} \pagenumbering{roman}}

\renewcommand\mainmatter{\if@openright \cleardoublepage \else \clearpage \fi \@mainmattertrue \pagestyle{fancyplain} \pagenumbering{arabic}}

We make available some spacing macros. The amounts of stretch are those specified for 12 pt by the \LaTeX Companion \cite{5}. Other font sizes differ from these only marginally. See the \uwamaths package \cite{4} where the same macros are defined, for further discussion of these macros.

\newcommand{\singlespacing}{\renewcommand{\baselinestretch}{1}}
\newcommand{\oneandhalfspacing}{\renewcommand{\baselinestretch}{1.24}}
\newcommand{\doublespacing}{\renewcommand{\baselinestretch}{1.66}}

Now we modify the standard \LaTeX macros \texttt{@startsection} and \texttt{\chapter} (the latter is defined in the \texttt{book} class) by adding \texttt{\AtBeginSection{#1}} in an appropriate place. The purpose and examples of use of \texttt{\AtBeginSection} are described a little later, below.

\def{\@startsection}{#1#2#3#4#5#6}{% 
\if@noskipsec \leavevmode \fi \par \@tempskipa #4\relax \@afterindenttrue \ifdim \@tempskipa <\z@ \@tempskipa -\@tempskipa \@afterindentfalse \fi \if@nobreak \everypar{}\else \addpenalty\@secpenalty\addvspace\@tempskipa\fi \@ifstar{\@sect{#3}{#4}{#5}{#6}}{% \AtBeginSection{#1} \@dblarg{\@sect{#1}{#2}{#3}{#4}{#5}{#6}}}\}
\renewcommand\chapter{% 
\if@openright \cleardoublepage\else \clearpage\fi
We define \AtBeginSection to be a no-op by default.

Now we define the macro that motivated the desire to have something like \AtBeginSection. AMSTeX defines a macro \numberwithin which doesn’t work as desired in the case where a counter is already numbered within a sectional unit — one can end up with duplicate chapter numbers for a table, for example. Hence we provide a macro \numberin which otherwise works in the manner described for \numberwithin in [1], e.g.

\numberin{table}{chapter}

will cause tables to be numbered within chapters. To get the order of the arguments right, read the above command this way: number table in chapter. (You will get strange effects if you get the arguments the wrong way round.)

(For those curious about what \@xp does: \@xp is an AMSTeX abbreviation for TeX’s \expandafter. The above configuration of \expandafter commands is described in [6, page 374].) Now, we describe a use for \AtBeginSection. Suppose we want numbering to be within the particular sectional unit a numbered item resides, i.e. if it is in a subsection we want it numbered subordinate to the subsection counter, if it is in a chapter (but not in a smaller unit) we want it numbered subordinate only to the chapter counter, etc. We could issue \numberin commands each time we enter a new chapter, section, subsection, .... (We can’t use \numberwithin to do this ... we would end up with longer and longer strings of duplicated sectional numbers.) This is where \AtBeginSection comes in. To automatically number tables, figures and equations within the smallest current sectional unit, one would redefine \AtBeginSection as follows.

\renewcommand{\AtBeginSection}[1]{\numberin{table}{#1} \\
\numberin{figure}{#1}
\numberin{equation}{#1}}

\AtBeginSection must be defined with one argument. When called by the \chapter or \@startsection command (\@startsection command is invoked by \section, \subsection, ...) the #1 in the body of the \AtBeginSection command definition is the current sectional unit (e.g. chapter, section, subsection, ...). The uwamaths package [4] defines a number of theorem environments and a command \numberallin. Since the theorem environments
aren’t actually defined by this class, we don’t provide \texttt{\numberallin}. Suppose, however, that you are loading the package \texttt{uwamaths}, then to also number the theorem environments within the smallest current sectional unit one could instead redefine \texttt{\AtBeginSection} as follows.

\begin{verbatim}
\renewcommand{\AtBeginSection}[1]{\numberallin{#1}}
\end{verbatim}

Presumably, there are many other uses for \texttt{\AtBeginSection}.

5 A sample thesis master file

Well that’s it for the code. Here is an example of a typical master file for a thesis; let’s call it \texttt{mythesis.tex}.

(Just an aside for the not fully \LaTeX-literate: commands referred to as \textit{environments} are ones that have an opening \texttt{\begin{...}} and a closing \texttt{\end{...}}. Sectioning commands, like \texttt{\chapter}, \texttt{\section}, etc. are \textit{not} environments. If you are not clear on this please check one of the \LaTeX manuals\cite{7, 8}.)

First we must specify the class and fontsize:

\begin{verbatim}
\documentclass[12pt]{uwathes}
\end{verbatim}

(An option \texttt{honours} is also available, if you wish to use the \texttt{uwathes} class for an Honours Dissertation; or, if you prefer use the \texttt{uwadissert.tex} template, which uses the standard \LaTeX report class, and is available via the \texttt{maths.uwa.edu.au \LaTeX Local Guide}.)

Usually, the user will load the \texttt{uwamaths} package \cite{4} but this is not essential. Suppose that \texttt{theorems} etc., \texttt{tables}, \texttt{figures} and \texttt{equations} should be numbered within the smallest current sectional unit then one should specify:

\begin{verbatim}
\usepackage[unsectioned]{uwamaths}
\renewcommand{\AtBeginSection}[1]{\numberallin{#1}}
\end{verbatim}

\textit{Note} that \texttt{\numberallin} is provided by the \texttt{uwamaths} package, \textit{not} the \texttt{uwathes} class. If you are happy with having all \texttt{theorems} etc., \texttt{tables}, \texttt{figures} and \texttt{equations} numbered in the form \texttt{N.m.l} then the above two lines should be replaced by: \texttt{\usepackage{uwamaths}} (i.e. without declaring the \texttt{unsectioned} option or redefining \texttt{\AtBeginSection}). See the discussion in the previous section for other possibilities for \texttt{\AtBeginSection} and \cite{4} for other options you might want from the \texttt{uwamaths} package.

The University of Western Australia specifies the interline spacing for a PhD thesis should be at least 1\textfrac{1}{2}-spacing but not more than double-spacing:

\begin{verbatim}
\oneandahalfspacing
\end{verbatim}

If you intend having an \texttt{Index} and you are using MakeIndex to generate it then you need:

\begin{verbatim}
\makeindex
\end{verbatim}
Similarly if you want a Glossary and/or a List of Symbols and you have appropriate .ist (index style) files so that you can use MakeIndex to generate the .gls and .smb files from the (LATEX-generated) .glo and .sym files, respectively, then you need (one or both of):

\makeglossary
\makesymbols

Now the guff that will be set in the title page; \date is optional ... it defaults to today's date. Also, \date{} (i.e. giving \date a blank argument) gives just the current month and year (i.e. no day).

\title{My Thesis}
\author{A. U. Thor}
\date{September 1999}

The user may wish to over-ride the default \dept, \institution and \degree at this point; or alternatively over-ride the default \thanks, which for a PhD thesis by default sets the words This thesis is presented for ... in the title page.

Now the start of the document followed by \maketitle to actually set the title page.

\begin{document}
\maketitle

Now the usual front matter stuff. Here we have specified that the abstract and acknowledgements environments are in files abstract.tex and acknow.tex, respectively. There is also a dedication environment entirely analogous to the acknowledgements environment. (If the user, should wish to include one there is also a preface environment.) The theglossary environment, if there is one, should be in file mythesis.gls since our thesis master file is called mythesis.tex. It may be printed via \printglossary rather than using an \include statement. A thesymbols environment for a List of Symbols, if there is one, should be in file mythesis.smb since our thesis master file is called mythesis.tex. As for the Glossary, it may be printed via \printsymbols rather than using an \include statement. It’s good form to put the environments abstract etc. in separate files. We discuss these front matter environments a little further in the next section.

\include{abstract}
\tableofcontents
\listoftables
\listoffigures
\printsymbols
\printglossary
\include{acknow}

Now comes the body of the text, initiated by \mainmatter, which sets a fancy pagestyle and arabic numbering on a fresh page. Again, it is recommended that
each chapter is in a separate file. The \appendix macro does not generate any text but resets the \chapter counter to number A, B, ....

\mainmatter
\include{chap1}
\include{chap2}
\include{chap3}
\include{chap4}
\appendix
\include{appxA}

Let's suppose we are using BibTEx and our bibliography database file is myrefs.bib and we are using the uwa bibliography style. Then we would have:

\bibliographystyle{uwa}
\bibliography{myrefs}

If we intend to have an index we have:

\printindex

Finally, we have the closing out of the document:

\end{document}

6 The front matter environments

Now, we discuss what goes in the included files abstract.tex, acknow.tex and mythesis.gls (the front matter environments files specified in our sample master file above). Firstly, in the file abstract.tex one should have an abstract environment, e.g. the contents of abstract.tex should be something like

\begin{abstract}
TEXT
\end{abstract}

The file acknow.tex should contain an acknowledgements environment, something like

\begin{acknowledgements}
TEXT
\end{acknowledgements}

If you also have a dedication environment it also should be in its own file, \include{acknow.tex} and contain

\begin{dedication}
TEXT
\end{dedication}

The file mythesis.gls should contain a theglossary environment, which is just like the standard L\TeX description environment, i.e. something like
\begin{thebibliography}{9}


\item G. Gamble, \textit{The \texttt{uwamaths} package}, (Version 2.2, Aug. 1999). Filename: uwamaths.dvi. Describes a general purpose package of macros for the Department of Mathematics & Statistics at the University of Western Australia.

\item M. Goossens, F. Mittelbach, and A. Samarin, \textit{The \TeX Companion} (Addison-Wesley, 1994).

\item D. E. Knuth, \textit{The \TeXbook} (Addison-Wesley, 1984). Describes \TeX in detail.

\item L. Lamport, \textit{\TeX – A Document Preparation System} (Addison-Wesley, first ed., 1985). Describes \TeX 2.09.

\item L. Lamport, \textit{\TeX – A Document Preparation System} (Addison-Wesley, second ed., 1994). Updated for \TeX 2e.

\item The \TeX3 Project, \textit{\TeX 2e for class and package writers} (Jun. 1996). Filename: clsguide.dvi.

\end{thebibliography}

Bibliography


Index

Numbers written in italic refer to the page where the corresponding entry is described, the ones underlined to the code line of the definition, the rest to the code lines where the entry is used.

### Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>&amp;</td>
<td>66</td>
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<tr>
<td>.</td>
<td>214</td>
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<tr>
<td>.glo</td>
<td>14</td>
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<td>.glo</td>
<td>14</td>
</tr>
<tr>
<td>.gls</td>
<td>14</td>
</tr>
<tr>
<td>.ist</td>
<td>14</td>
</tr>
<tr>
<td>.smb</td>
<td>7, 14</td>
</tr>
<tr>
<td>.sym</td>
<td>7, 14</td>
</tr>
<tr>
<td>/</td>
<td>74–77, 80–82, 121</td>
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<tr>
<td>/\</td>
<td>234</td>
</tr>
<tr>
<td>_</td>
<td>295, 301, 307</td>
</tr>
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<td>1–3</td>
</tr>
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<td>\amsldoc.dvi</td>
<td>16</td>
</tr>
<tr>
<td>\amsmath</td>
<td>3</td>
</tr>
<tr>
<td>\amsthm</td>
<td>3, 16</td>
</tr>
<tr>
<td>\amsthm</td>
<td>2–4, 9</td>
</tr>
<tr>
<td>\amsthm</td>
<td>3, 16</td>
</tr>
<tr>
<td>\amsthm.dvi</td>
<td>16</td>
</tr>
<tr>
<td>\appendix</td>
<td>106</td>
</tr>
<tr>
<td>\appendix</td>
<td>15</td>
</tr>
<tr>
<td>\appendix</td>
<td>277</td>
</tr>
<tr>
<td>\appendix</td>
<td>279</td>
</tr>
<tr>
<td>\arabic</td>
<td>352</td>
</tr>
<tr>
<td>\arabic</td>
<td>251, 279</td>
</tr>
<tr>
<td>\author</td>
<td>4</td>
</tr>
<tr>
<td>\author</td>
<td>53–55, 104</td>
</tr>
<tr>
<td>\author</td>
<td>53, 56, 117</td>
</tr>
<tr>
<td>\baselineskip</td>
<td>3</td>
</tr>
<tr>
<td>\baselineskip</td>
<td>33, 241</td>
</tr>
<tr>
<td>\baselineskip</td>
<td>33, 241</td>
</tr>
<tr>
<td>\baselinestretch</td>
<td>328–330</td>
</tr>
<tr>
<td>\begin</td>
<td>120, 133, 137, 141, 149, 157, 287</td>
</tr>
<tr>
<td>\begingroup</td>
<td>87, 109, 111, 162, 174, 245, 257</td>
</tr>
<tr>
<td>\bfseries</td>
<td>246, 258, 264, 267, 283, 288, 289</td>
</tr>
<tr>
<td>\calclayout</td>
<td>2, 3</td>
</tr>
<tr>
<td>\calclayout</td>
<td>14, 34</td>
</tr>
<tr>
<td>\centering</td>
<td>113, 116, 246, 258, 264</td>
</tr>
<tr>
<td>\centerline</td>
<td>250</td>
</tr>
<tr>
<td>\chapter</td>
<td>290</td>
</tr>
<tr>
<td>\chapter</td>
<td>11–13, 15</td>
</tr>
<tr>
<td>\chapter</td>
<td>145, 153, 183, 195, 202, 341</td>
</tr>
<tr>
<td>\chapter*</td>
<td>7</td>
</tr>
<tr>
<td>\chapter*</td>
<td>292</td>
</tr>
<tr>
<td>\chaptername</td>
<td>285</td>
</tr>
<tr>
<td>\centering</td>
<td>108, 127, 312, 321, 342</td>
</tr>
<tr>
<td>\clearpage</td>
<td>232, 314, 323, 342</td>
</tr>
<tr>
<td>\clsguide.dvi</td>
<td>16</td>
</tr>
<tr>
<td>\clubpenalty</td>
<td>213</td>
</tr>
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<td>\columnsep</td>
<td>225</td>
</tr>
<tr>
<td>\columnseprule</td>
<td>224</td>
</tr>
<tr>
<td>\csname</td>
<td>52, 55, 351, 352</td>
</tr>
<tr>
<td>\date</td>
<td>4, 14</td>
</tr>
<tr>
<td>\date</td>
<td>105</td>
</tr>
</tbody>
</table>
Index

\DeclareOption ...
........... 4, 6, 8, 10
dedication
dedication environ-
ment 6, 14, 15
\def ........... 14, 57,
89, 90, 108, 125,
159, 162, 169,
174, 215, 244,
256, 262, 265,
268, 271, 274,
277, 280, 331, 348
degree
degree ....... 4, 14
\degree ....... 63, 69, 71
\department .... 61, 78, 83
dep
dep ....... 4, 14
\dept ....... 4, 14
description
description envi-
ronnement .... 15
\divide ....... 20, 24
documentclass
documentclass .. 3
\doublespacing .... 330

E
\edef ........... 51, 54
\else ..... 38, 70, 79,
121, 122, 180,
192, 221, 232,
313, 322, 336, 342
\em ........... 234
\emph ........... 237
\end .... 123, 134, 138,
142, 150, 158, 289
\endcsname ....
.. 52, 55, 351, 352
\endgroup .... 94, 118,
124, 172, 253, 259
\endinput .... 353
\endlist ....... 217
\endtrivlist .... 47
\enspace .... 251
\ensuremath .... 238
equation
equation environ-
ment .... 12, 13
evensidemargin
evensidemargin .... 3
\evensidemargin .... 21, 25\everypar ....... 336
\ExecuteOptions ..... 11
\expandafter .... 12
F
fancyhdr
fancyhdr package .... 10
\fancypar .... 283, 284, 286, 287
\fi ........... 27, 38,
60, 72, 84, 121,
122, 182, 187,
194, 199, 223,
232, 252, 296,
297, 302, 303,
308, 315, 324,
332, 335, 337, 342
figure
figure environ-
ment .... 12, 13
figures
figures environ-
ment .... 13
\font .... 272, 275
\fontdimen .... 272, 275
\fontsize .... 246, 258
footskip
\footskip .... 2, 3
\footskip .... 17
\frontmatter
\frontmatter .... 11
\frontmatter .... 86, 310
G
\gdef .... 50, 53, 61–63
\global .... 14–26, 96–106, 345
gloss
gloss .... 9
glossary
glossary
glossary.tex .... 16
glossaryentry
glossaryentry .... 6
glossaryname ....
........ 143, 145–147
H
headheight
headheight .... 2, 3
headsep
\headsep .... 2, 3
\headsep .... 16
\headwidth .... 282
honours
honours option .... 2, 13
\hskip .... 44, 248, 252, 283
\hss ........... 92
\Huge .... 113
I
\ifcase .... 57
\ifdim .... 335
\ifnum .... 247, 293, 299, 306
\ifix .... 38, 121, 122
\ignorespaces .... 45
\immediate .... 161
\include
\include .... 14, 15
index
\index .... 9
\index .... 236
\indexname .... 226–228
indx
\indx .... 9
\indx .... 236
\institution
\institution .... 4, 14
\institution .... 62, 67
\item .... 44, 231
\itshape .... 270
J
\jobname .... 161,
165, 175, 176, 235
\labelsep .... 44, 208
\labelwidth .... 206, 207
\leavevmode .... 248, 332
\leftmargin .... 207, 208
L
Index

\leftmark ........ 286
\leftskip ...... 248, 252
\let ............. 38, 56, 64, 96–106, 166, 211, 231, 279
letterpaper
  letterpaper option ........ 3
\leftskip ........ 283
library
  library option ... 2
\linespacing .... 239, 241, 263, 266
\list .......... 205
\listfigurename ..
  ........ 183–185
\listoffigures .... 7
\listoffigures ... 177
\listoftables
  \listoftables ... 7
\listoftables ... 189
\listsymbolsname ..
  ........ 151, 153–155
\listtablename 195–197
\LoadClass .... 13
\long ........... 90

M
\mainmatter
  \mainmatter . 11, 14
\mainmatter ...... 319
\makebox ........ 288
\makeglossary
  \makeglossary ... 6
\makesymbols
  \makesymbols ... 6, 7
\makesymbols ...... 159, 166, 168
\maketitle
  \maketitle 5, 11, 14
\maketitle .... 85, 97
\MakeUppercase
  \MakeUppercase ... 7
\marginparsep .... 35
\marginparwidth ... 36
\markboth .... 292
\markright ..... 305
\mathfrak ..... 38
\mdseries ...... 117, 250
\medskipamount ... 114
\month ........... 57
\NeedsTeXFormat .... 2
\newcommand . 61–63,
  126, 143, 151,
  175, 176, 233–
  238, 328–330, 349
\newenvironment ..
  ........ 127, 131,
  135, 139, 144, 152
\newif .... 2, 3
\noindent .... 90
\nolibrary
  \nolibrary option
  ........ 2, 3
\normalbaselineskip ...
  ........ 254, 260
\normalfont ...... 42, 89, 92, 264,
  267, 270, 273, 276
\normalparindent .
  ........ 242,
  243, 266, 269, 272
\normalsize 32, 240, 250
\null ........... 110
\number .... 122
\numberallin
  \numberallin 12, 13
\numberin ...
  ........ 12
\numberin ...... 349
\numberwithin
  \numberwithin . 12
\oddsidemargin
  \oddsidemargin ... 2
\oddsidemargin ...
  ........ 18–21, 26
\onelinehalfspacing 329
\onecolumn 179, 191, 232
\oneside
  \oneside option ... 2, 3
\openout .... 161
\openup .... 114
\or .......... 57–60
\Preface
\preference environ-
  ment ........ 6, 14
\printglossary
  \printglossary .... 7, 14, 16
\printglossary .... 175
\printindex
  \printindex .... 7
\printindex .... 235
\printsymbols
  \printsymbols 7, 14
\printsymbols ... 176
\ProcessOptions ... 12
\proof
  \proof environment 4
\proofname .... 41
\ProvidesClass .... 3
\put ........... 288
\qed ........... 47
\relax ....... 12, 24, 37–
  40, 96–98, 103–
  106, 230, 333, 348
\renewcommand 50, 53,
  64, 85, 88, 132,
  136, 140, 177,
  189, 212, 292,
Change History

Y
\year ............. 122

Change History

v1.0
General: First release ........ 1

v1.0a
General: \MakeUppercase usages
removed from marks issued by
@mkboth in listoffigures,
listoftables, thebibliography
and theindex ............. 1
Added @mkboth commands
to issue (heading) marks
for abstract (and hence
acknowledgements and
dedication), thesymbols and
theglossary ................ 1
Created a new environment
dedication completely analo-
gous to acknowledgements ... 1
List of Symbols macros analog-
gous to those for generating a
Glossary were added. ......... 1
The \chaptermark and
sectionmark changed to in-
clude chapter and section
numbers in the marks ........ 1
The definitions of \head and
\head (the fancyheadings
macros) changed to not in-
clude chapter and section
numbers – now these are al-
ready in the marks ........... 1
The shorthand \gloss now em-
phasises its argument in the
text. A new shorthand \symb
ensures the \symbolsentry
written to the .sym file is in
math-mode ................... 1
Warning added about appropri-
ate usage of \chapter*. ....... 1

v1.0b
General: Added \AtBeginSection
and \numberin. Modified
\chapter and
@startsection to call
\AtBeginSection ........... 1
Added \cleardoublepage to
abstract to ensure that
abstract, acknowledgements
and dedication environments
start on a fresh righthand
page ..................... 1

v1.0c
General: No change to class.
Only the file header containing
phone number information altered. .......... 1

v1.1
General: Updated the default
setting of the department on the
titlepage. To fa-
cilitate user modification,
\dept, \institution and
\degree are now provided.
An option honours has also
been added (which should be
regarded as experimental).
We also provide options
library and nolibrary. We
now use fancyhdr in lieu of
fancyheadings. A bug that
caused the text not to be ver-
tically centred has been fixed. 1

v1.1a
General: Added a preface envi-
ronment ..................... 1