ShuThesis: 上海大学学位论文模板

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v2.0 (2017/05/05)

说明

- 1. 本模板旨在建立一个简单易用的上海大学学位论文模板,包括硕士学位论文、博士学位论文.
- 2. 本模板为作者根据上海大学研究生院发布的学位论文的 Word 模板编写而成.
- 3. 上海大学研究生院只提供了论文的 Word 模板,并未提供官方的 L^AT_EX 模板. ShuThesis 为 Word 模板的 L^AT_EX 实现,不保证格式审查老师不提意见. 任何由于使用本模板而引起的论文格式审查问题均与本模板作者无关.
- 4. 上海大学研究生院对学位论文的格式细节并未做具体的要求, 因此, ShuThesis 对部分细节做了设置, 使排版出来的论文尽可能的美观. 使用本模板前, 请认真阅读 shuthesis.pdf 文件.
- 5. 本模板是以清华大学学位论文模板 (ThuThesis) 为基础制作的衍生版, 在此对 ThuThesis 模板的维护者表示感谢!
- 6. 本模板的发布遵守 LATEX Project Public License, 使用前请认真阅读协议内容.

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1 模板介绍

ShuThesis (Shanghai University Lage Thesis Template) 是为了帮助上海大学毕业生撰写学位论文而编写的 Lage X 论文模板. 模板的开发分为两个阶段: 版本 v1.x 是由水寿松制作完成的,基于 CJK 宏包开发和使用 GBK 编码,可在 http://blog.lehu.shu.edu.cn/shuishousong/A209370.html 下载. 当前版本是 v2.0,由 ahhylau 制作完成,基于 XeCJK 宏包开发,文件使用 UTF-8 编码. ShuThesis v2.0 使用文学化编程 (Literate Programming),利用doc/DocStrip 将代码和说明文档混合编写,便于以后的升级和维护. 另外,作者重新制作了上海大学 logo 的高清矢量图,看起来更加美观.

目前 ShuThesis 模板的代码托管在 GitHub 上, 如有修改建议或者其他要求欢迎在 GitHub 上提交 issue, 作者会尽快回复. 非常期待有其他上大的 TeX 使用者加入到模板的开发与维护当中来, 不断完善模板.

注意:模板的作用在于减少论文写作过程中格式调整的时间. 前提是遵守模板的用法, 否则即便用了 SHuTHESIS 也难以保证输出的论文符合学校规范.

2 安装

2.1 模板的组成

本文档将尽量完整的介绍模板的使用方法,如有不清楚之处可以参考示例文档.下表列出了 ShuThesis 的主要文件及其功能介绍:

文件 (夹)	功能描述
shuthesis.ins	DocStrip 驱动文件 (开发用)
shuthesis.dtx	DocStrip 源文件 (开发用)
shuthesis.cls	模板类文件
shuthesis.cfg	模板配置文件
shuthesis.bst	参考文献样式文件
main.tex	示例文档主文件
reference/	示例文档参考文献目录
data/	示例文档章节具体内容
figures/	示例文档图片路径
shuthesis.sty	为示例文档加载其它宏包
shuthesis.pdf	用户手册 (本文档)
clean.bat	清理编译过程中生成的缓存文件
make-doc.bat	一键生成用户手册 shuthesis.pdf
FZLanTing.ttf	方正兰亭中黑字体 (XHITEX 编译使用)
FZXBsong.ttf	方正小标宋字体 (XgLETEX 编译使用)
HanYikaishu.ttf	汉仪中楷字体 (XHITEX 编译使用)

几点说明:

- shuthesis.cls 和 shuthesis.cfg 可由 shuthesis.ins 和 shuthesis.dtx 生成 (见 2.2 节), 但为了降低新手用户的使用难度, 故将 shuthesis.cls 和 shuthesis.cfg 文件一起发布.
- 使用前阅读文档: shuthesis.pdf.

2.2 生成模板说明文件

模板解压缩后生成文件夹 shuthesis-vX.Y¹, 其中包括: 模板源文件 (shuthesis.ins 和 shuthesis.dtx), 参考文献样式 shuthesis.bst, 示例文档 (main.tex, shuthesis.sty², data/, figures/和 reference/)等. 在使用之前需要先生成模板说明文件 (shuthesis.pdf)和配置文件 (shuthesis.cfg).

```
$ cd shuthesis-vX.Y
# 生成 shuthesis.cls 和 shuthesis.cfg
$ latex shuthesis.ins

# 下面的命令用来生成用户手册,可以不执行.
$ xelatex shuthesis.dtx
$ makeindex -s gind.ist -o shuthesis.ind shuthesis.idx
$ makeindex -s gglo.ist -o shuthesis.gls shuthesis.glo
$ xelatex shuthesis.dtx
$ xelatex shuthesis.dtx % 生成说明文档 shuthesis.pdf
```

2.3 编译环境

本模板在 Windows 10 和 TeXLive 2016 下开发,支持多种平台.由于历史原因,目前国内使用 CTeX 套装的人还是很多.然而, CTeX 套装自从 2012 年后就不再更新了,许多宏包已经很老旧了.因此本模板不再支持在 CTeX 套装下使用³.随着 XeTeX 的发展在 TeX 中使用中文已经非常方便了.本模板基于 XeCJK 宏包开发,全部文件均使用 UTF-8 编码.作者推荐使用 TeXLive 进行编译.

注意: 若用户编译不成功, 请将宏包更新至最新.

本模板使用 ctex 宏包进行中文字体的配置 (详见第 3.3 节), 因此在不同操作系统下的兼容性有保证. 以下将介绍几种常见的生成论文的方法, 用户可根据自己的情况选择. 最简便的方法是使用 LYTeX 编辑器 (推荐 TeXstudio) 直接编译, 支持使用 XaTeTeX (推荐) 和 PDFLYTeX 方式编译. 下面介绍在命令行下使用本模板生成论文的方法.

$2.3.1 X_{\mathrm{H}} X_{\mathrm{TE}} X$

首先来看推荐的 XgLATeX 方式 (# 开头的行为注释):

```
# 1. 发现里面的引用关系,文件后缀 .tex 可以省略.
$ xelatex main
# 2. 编译参考文件源文件,生成 bbl 文件.
$ bibtex main
```

¹vX.Y 为版本号.

²可能用到的包以及一些命令定义都放在这里, 以免 shuthesis.cls 过分臃肿.

 $^{^3}$ CT_EX v2.9.2 及之前的版本均无法使用.

```
# 3. 下面解决引用.
$ xelatex main
$ xelatex main # 此时生成完整的 pdf 文件
```

2.3.2 PDFFTEX

如果使用 PDFETEX, 按照第 2.3.1 节的顺序执行即可, 只需要将命令中 xelatex 替换为pdflatex 即可.

需要注意的是 PDFIATEX 不能处理常见的 EPS 图形,需要先用 epstopdf 将其转化成 PDF. 不过 PDFIATEX 增加了对 png, jpg 等格式的支持,比较方便. TEXLive 自从 2010 版本起自动调用 epstopdf 将 EPS 图形转化为 PDF.

2.3.3 latexmk

latexmk 命令支持全自动生成 LATEX 编写的文档,并且支持使用不同的工具链来进行生成,它会自动运行多次工具直到交叉引用都被解决.下面给出了一个用 latexmk 调用 XELATEX 生成最终文档的示例:

```
# 只需要使用下面这一句就可以了.
$ latexmk -xelatex main
```

3 使用说明

3.1 示例文件

模板核心文件有三个: shuthesis.cls, shuthesis.cfg 和 shuthesis.bst, 但是如果没有示例文档用户会发现很难下手. 所以推荐新用户从模板自带的示例文档入手, 里面包括了论文写作用到的所有命令及其使用方法, 只需要用自己的内容进行相应替换就可以. 对于不清楚的命令可以查阅本手册. 下面的例子描述了模板中章节的组织形式, 来自于示例文档, 具体内容可以参考模板附带的 main.tex 和 data/.

```
% !Mode:: "TeX:UTF-8"
\documentclass[type=doctor,openany,pifootnote]{shuthesis}
% 选项:
% type=[master|doctor],
                             % 可选 (如果论文需要保密,这一项需要打开)
% secret,
                            % 可选 (建议打开)
% pifootnote,
% openany|openright,
                             % 可选 (章首页是右开还是任意开,默认是右开)
                             % 提交最终版本时请打开此选项
% nocolor
\usepackage{shuthesis}
\graphicspath{{figures/}}
\begin{document}
\frontmatter
\shusetup{
 %%%%%%% 1. 配置里面不要出现空行. 2. 不需要的配置信息可以删除. %%%%%%%%%%%%%
 secretlevel={公开}, % 秘级
```

3.1 示例文件 3 使用说明

```
% 中文信息
 ctitle={上海大学研究生(硕博)学位\\论文 \LaTeX\ 模板使用示例文档 v\version},
  cdisciplines={理学},
 cdepartment={理学院},
  cmajor={运筹学与控制论},
  cauthor={ahhylau},
  csupervisor={},
 id=\{15820019\},
  catalognumber={0157},
  cdate={2017 年 5 月},
  coverdate={\zhdigits{2017}年\zhnumber{5}月},
 % 英文信息
  etitle={An Introduction to \LaTeX{} Thesis Template of Shanghai University v\version},
  edisciplines={Science},
  edepartment={Department of Mathematics},
  emajor={Operational Research and Control Theory},
  eauthor={ahhylau},
 esupervisor={},
 edate={May, 2017}
}
\input{data/abstract}
\makefirstpage
                                    % 生成带有学校 logo 的封面
\makecover
\tableofcontents
                                    % 目录
\input{data/denotation}
                                   % 符号对照表
% 正文部分
\mainmatter
\include{data/chap01}
\include{data/chap02}
\include{data/chap03}
\include{data/chap04}
\listoffigures
                                   % 插图索引
\listoftables
                                   % 表格索引
%参考文献。
\bibliographystyle{shuthesis}
\bibliography{reference/refs}
                                  % 发表论文清单
\include{data/publications}
\include{data/projects}
                                   % 项目清单
\include{data/acknowledgement}
                                   % 致谢
\backmatter
\begin{appendix}
\input{data/appendix}
\end{appendix}
```

3.2 论文选项 3 使用说明

\end{document}

3.2 论文选项

type 选择论文类型, 当前支持: master, doctor, 为必选项.

```
% 博士论文
\documentclass[type=doctor]{shuthesis}

% 硕士论文
\documentclass[type=master]{shuthesis}
```

```
\documentclass[secret]{shuthesis} % 打开保密
\shusetup{
    secretlevel={公开},
    secretyear={10}
    }
% 或者
\secretlevel{保密}
\secretlevel{保密}
```

pifootnote

是否使用 pifont 的带圈字符标记脚注编号, 默认关闭. 一页的脚注建议控制在 9 个以内, 否则大于 10 的数字带圈的效果不太好. 建议使用时打开此选项, 脚注编号很漂亮, 开启方法如下:

\documentclass[pifootnote]{shuthesis}

openany openright 正规出版物的章节出现在奇数页, 也就是右手边的页面, 这就是 openright. 在这种情况下, 如果前一章的最后一页也是奇数, 那么模板会自动生成一个纯粹的空白页, 很多人不是很习惯这种方式, 而且学校的格式似乎更倾向于页面连续, 那就是通常所说的 openany. ShuThesis 的默认选项是 openright. 如果需要使用 openany, 可按如下方式开启:

\documentclass[openany]{shuthesis}

arialtitle nocolor

章节标题中英文是否用 Arial 字体 (默认打开).

文字超链接不使用彩色 (默认关闭). 在向图书馆提交最终版本时请打开 nocolor 选项, 因为图书馆要求电子版论文中不允许出现除黑色以外的颜色. 开启方法如下:

\documentclass[nocolor]{shuthesis}

3.3 中文字体

3.3.1 字体配置

正确配置中文字体是使用模板的第一步. 模板调用 ctex 宏包, 提供如下字体使用方式:

- 基于传统 CJK 包, PDFIATEX 编译.
- 基于 xeCJK 包, 使用 X<u>H</u>AT_EX 编译 (推荐方法).

模板默认使用 ctex 的字体配置. 关于中文字体安装、配置的所有问题不在本模板讨论范围.

3.4 封面信息 3 使用说明

3.3.2 字体命令

字体和字号

\chuhao \xiaochu 切换宋体\songti、仿宋\fangsong、黑体\heiti、楷体\kaishu 四种基本字体. 定义字体大小,分别为:

xiaochu \yihao \xiaoyi

```
\chuhao
         \xiaochu
                    \yihao
                              \xiaoyi
                                           \erhao
                                                     \xiaoer
                              \banxiaosi
\sanhao
         \xiaosan
                    \sihao
                                           \xiaosi
                                                     \dawu
                    \liuhao
                              \xiaoliu
\wuhao
         \xiaowu
                                           \qihao
                                                     \bahao
```

使用方法为: \command[$\langle num \rangle$], 其中 command 为字号命令, num 为行距. 比如 \xiaosi[1.5] 表示选择小四字体, 行距 1.5 倍, 这样更为灵活. 当然, 也可以使用 ctex 宏包 定义的 \zihao{ $\langle num \rangle$ } 来切换字号, 具体用法参看其文档.

3.4 封面信息

封面信息提供两种配置方法:一是通过统一设置命令\shusetup通过 key=value 形式完成;二是每个信息利用命令独立设置,其中命令的名字跟 key 相同. 两种方式可以交叉使用,并按顺序执行(即后来的设置会覆盖前面的). 以 c 开头的命令跟中文相关, e 开头则为对应的英文.

\shusetup 用法与常见 key=value 命令相同, 如下:

\shusetup

```
\shusetup{
    key1 = {value1},
    key2 = {value2},
}
% 可以多次调用
\shusetup{
    key3 = {value3},
    key1 = {value4}, % 覆盖 value1
}
```

注意:\shusetup使用 kvoptions 机制, 所以配置项之间不能有空行, 否则会报错.

3.4.1 密级

定义秘密级别和年限,需要打开论文的 secret 选项.

\secretlevel \secretyear

```
\shusetup{
    secretyear={10},
    secretlevel={内部},
}
% 以下命令方式与上面的等价:
\secretyear{10}
\secretlevel{内部}
```

3.4.2 学号和中图分类号

学号和中图分类号.

\id \catalognumber

```
\shusetup{
   id={学号},
   catalognumber={中图分类号},
```

3.4 封面信息 3 使用说明

```
}
% 等价:
\id{学号}
\catalognumber{中图分类号}
```

3.4.3 作者姓名

作者姓名.

\cauthor \eauthor

```
\shusetup{
    cauthor={中文姓名},
    eauthor={Name in English}
}
% 等价:
\cauthor{中文姓名}
\eauthor{Name in English}
```

3.4.4 导师

导师姓名.

\csupervisor \esupervisor

```
\shusetup{
    csupervisor={导师},
    esupervisor={Supervisor}
}
% 等价:
\csupervisor{导师}
\esupervisor{Supervisor}
```

3.4.5 论文标题

中英文标题. 题目内部可以使用换行"\\".

```
\ctitle
\etitle
```

```
\shusetup{
    ctitle={论文中文题目},
    etitle={Thesis English Title}
}
%等价:
\ctitle{论文中文题目}
\etitle{Thesis English Title}
```

3.4.6 申请学位名称

ShuThesis 会根据用户的选择 type=master 或 type=doctor 进行自动设置.

3.4.7 院系名称

院系名称.

\cdepartment
\edepartment

3.4 封面信息 3 使用说明

```
\shusetup{
    cdepartment={院系名称},
    edepartment={Deparment}
}
% 等价:
\cdepartment{院系名称}
\edepartment{Department}
```

3.4.8 专业名称

专业名称.

\cmajor
\emajor

```
\shusetup{
    cmajor={专业名称},
    emajor={Major in English}
}
% 等价:
\cmajor{专业名称}
\emajor{Major in English}
```

3.4.9 学科分类名称

学科分类名称,即理学、工学、文学.

\cdisciplines
\edisciplines

```
\shusetup{
    cdisciplines={学科分类名称},
    edisciplines={Subject in English}
}
% 等价:
\cdisciplines{学科分类名称}
\edisciplines{Subject in English}
```

3.4.10 论文完成日期

默认为当前时间,也可以自己指定.

\cdate
\edate

```
\shusetup{
    cdate={中文日期},
    edate={English Date}
}
% 等价:
\cdate{中文日期}
\edate{English Date}
```

3.4.11 摘要

摘要正文

摘要正文只能用环境命令的形式,不支持\shusetup.

cabstract
eabstract

```
\begin{cabstract}
摘要请写在这里.
\end{cabstract}
```

3.5 目录和索引表 3 使用说明

```
\begin{eabstract}
Here comes the abstract in English.
\end{eabstract}
```

关键词

关键词用英文逗号分割写入相应的命令中,模板会解析各关键词并生成符合不同论文格式要求的关键词格式.

\ckeywords \ekeywords

```
\shusetup{
    ckeywords={关键词 1, 关键词 2},
    ekeywords={keyword 1, keyword 2}
}
% 等价:
\ckeywords{关键词 1, 关键词 2}
\ekeywords{keyword 1, keyword 2}
```

生成封面

\makefirstpage
\makecover

命令 \makefirstpage 用以生成带有学校 logo 的封面. 如果不需要此页可以将 \makefirstpage 注释掉. 命令 \makecover 用以生成答辩委员会签名页、原创性声明和授权说明页、中文标题页、英文标题页以及摘要等.

3.4.12 符号对照表

denotation

主要符号表环境, 跟 description 类似, 使用方法参见示例文件. 带一个可选参数, 用来指定符号列的宽度 (默认为 2.5cm).

```
\begin{denotation}
\item[E] 能量
\item[m] 质量
\item[c] 光速
\end{denotation}
```

如果默认符号列的宽度不满意,可以通过参数来调整:

```
\begin{denotation}[1.5cm] % 设置为 1.5cm
\item[E] 能量
\item[m] 质量
\item[c] 光速
\end{denotation}
```

3.5 目录和索引表

目录、插图、表格等索引命令分别如下,将其插入到期望的位置即可 (带星号的命令表示对应的索引表不会出现在目录中):

\tableofcontents
\listoffigures
\listoffigures*
\listoftables
\listoftables*

用途	命令
目录	\tableofcontents
插图索引	\listoffigures
	\listoffigures*

3.6 封底部分 3 使用说明

表格索引 \listoftables \listoftables*

LATEX 默认支持插图和表格索引,是通过 \caption 命令完成的,因此它们必须出现在浮动环境中,否则不被计数.

如果不想让某个表格或者图片出现在索引里面,那么请使用命令\caption*,这个命令不会给表格编号,也就是出来的只有标题文字而没有"表 xx","图 xx",否则索引里面序号不连续就显得不伦不类,这也是 LATeX 里星号命令默认的规则.

3.6 封底部分

3.6.1 致谢

acknowledgement

把致谢做成一个环境更好一些,直接往里面写感谢的话就可以了.

\begin{acknowledgement}

这里填写致谢内容...

end{acknowledgement}

3.6.2 附录

appendix

所有的附录都插到这里来.

\begin{appendix}

\input{data/appendix}

end{appendix}

3.6.3 作者在攻读学位期间发表的论文

publications projects

用 enumerate 环境进行罗列发表的论文.

用 enumerate 环境进行罗列所做的项目.

3.7 自定义

3.7.1 数学环境

SHUTHESIS 定义了常用的数学环境:

	theorem 定理	definition 定义	proposition 命题	lemma 引理	conjecture 猜想	
proof	corollary	example	exercise	assumption	remark	problem
证明	推论	例子	练习	假设	注释	问题

比如:

\begin{theorem}

一元五次方程没有一般代数解.

end{theorem}

3.8 其它 3 使用说明

产生(自动编号):

```
定理 1.1 一元五次方程没有一般代数解.
```

3.7.2 引用方式

SHUTHESIS 推荐使用 BIBT_EX 来生成参考文献,即将参考文献写进一个 .bib 文件里,通过 \cite shuthesis.bst 生成符合要求的参考文献. 如:

```
      @book{algebra2000,

      title = {代数学引论},

      author = {聂灵沼 and 丁石孙},

      publisher = {高等教育出版社},

      year = {2000},

      }
```

注意:如果不使用 shuthesis.bst 制作参考文献,请删除 main.tex 中以 \bibliography 开头的两行,以避免可能的编译错误.

3.7.3 列表环境

itemize
enumerate
description

为了适合中文习惯,模板将这三个常用的列表环境用 enumitem 进行了纵向间距压缩.一方面清除了多余空间,另一方面用户可以自己指定列表环境的样式 (如标签符号,缩进等).细节请参看 enumitem 文档,此处不再赘述.

3.8 其它

模板的配置文件 shuthesis.cfg 中定义了很多固定词汇,一般无须修改. 如果有特殊需求,推荐在导言区使用 \renewcommand.

4 实现细节

4.1 基本信息

1 (cls)\NeedsTeXFormat{LaTeX2e}[1999/12/01]

```
2 \( cls \) \\ ProvidesClass \{ shuthesis \}
 3 \( cfg \\ ProvidesFile \{ shuthesis.cfg \}
 4 (cls | cfg) [2017/05/05 v2.0 Shanghai University Thesis Template]
    定义选项
4.2
 5 (*cls)
 6 \hyphenation{Shu-Thesis}
 7\def\shuthesis{\textsc{ShuThesis}}
 8 \def\version{2.0}
 9\RequirePackage{kvoptions}
10 \SetupKeyvalOptions{
11 family=shu,
12 prefix=shu@,
    setkeys=\kvsetkeys}
    用 kvoptions 的 key=value 方式来设置论文类型.
14 \newif\ifshu@master
15 \newif\ifshu@doctor
16 \define@key{shu}{type}{%
    \shu@masterfalse
    \shu@doctorfalse
    \expandafter\csname shu@#1true\endcsname}
20 \def\shu@deprecated@type@option{%
    \kvsetkeys{shu}{type=\CurrentOption} % for compatability.
22
    \ClassError{shuthesis}{Option '\CurrentOption' is deprecated, \MessageBreak
                          please use 'type=\CurrentOption' instead}{}}
24 \DeclareVoidOption{master}{\shu@deprecated@type@option}
25 \DeclareVoidOption{doctor}{\shu@deprecated@type@option}
    论文是否保密.
26 \DeclareBoolOption{secret}
    章节标题中的英文是否用 Arial 字体 (默认打开).
27 \DeclareBoolOption{arialtitle}
    raggedbottom 选项 (默认打开).
28 \DeclareBoolOption{raggedbottom}
    在脚注标记中使用 pifont 的带圈数字 (默认关闭).
29 \DeclareBoolOption{pifootnote}
    超链接是否使用彩色(默认使用蓝色).
30 \DeclareBoolOption{nocolor}
    将选项传递给 ctexbook.
31 \DeclareDefaultOption{\PassOptionsToClass{\CurrentOption}{ctexbook}}
    打开默认选项.
32 \kvsetkeys{shu}{raggedbottom,arialtitle}
```

4.3 装载宏包 4 实现细节

解析用户传递过来的选项,并加载 ctexbook.

33 \ProcessKeyvalOptions*

使用 ctexbook 类, 优于调用 ctex 宏包.

34\LoadClass[a4paper,UTF8,zihao=-4,scheme=plain]{ctexbook}

使用 X_HT_EX 引擎时, fontspec 宏包会被 xeCJK 自动调用. 传递给 fontspec 宏包 no-math 选项, 避免部分数学符号字体自动调整为 CMR. 其他引擎下没有这个问题, 这一行会被无视. 35\PassOptionsToPackage{no-math}{fontspec}

将 AutoFakeBold 选项传递给 xeCJK 以实现字体加粗的效果 (主要用在封面上的字体). 事实上,这种加粗是伪加粗,编译出来的效果并不好看. 所以 ShuThesis 并没有用 AutoFakeBold 选项.

36%\PassOptionsToPackage{AutoFakeBold}{xeCJK}

而是使用方正小标宋、方正兰亭黑和汉仪中楷字体作为宋体、黑体和楷书的加粗形式,更加美观.

```
37 \RequirePackage{ifxetex}
38\ifxetex
39\setCJKfamilyfont{LanTingHei}{FZLanTing.ttf}
40 \newcommand{\LanTingHei}{\CJKfamily{LanTingHei}}
{\tt 41 \setminus setCJKfamilyfont\{XBSong\}\{FZXBsong.ttf\}}
42 \newcommand{\XBSong}{\CJKfamily{XBSong}}
43\setCJKfamilyfont{HanYikai}{HanYikaishu.ttf}
44 \newcommand{\HanYikai}{\CJKfamily{HanYikai}}
45 \else\fi
    用户至少要提供一个选项,指定论文类型.
   \ifshu@master\relax\else
47
      \ifshu@doctor\relax\else
          \ClassError{shuthesis}%
48
                     {Please specify thesis type in option: \MessageBreak
49
                      type=[master|doctor]}{}
51
     \fi
   \fi
52
```

4.3 装载宏包

引用的宏包和相应的定义.

- 53 \RequirePackage{etoolbox}
- 54 \RequirePackage{xparse}

AMS-TFX 宏包,用来排出更加漂亮的公式.

- 55 \RequirePackage{amsmath}
- 56 \RequirePackage{amssymb}
- 57 \RequirePackage{amsfonts}

不同于 \mathcal 和 \mathfrak 之类的英文花体字体.

58 \RequirePackage{mathrsfs}

处理数学公式中的黑斜体的宏包.

59 \RequirePackage{bm}

4.3 装载宏包 4 实现细节

mathtools 宏包是 *AMS*-T_EX 宏包的补充, 它提供了许多有用的命令, 比如 dcases 等环境, 详见 mathtools 的宏包说明文档. 另外, ntheorem 宏包会影响 mathtools, 因此需要在ntheorem 之前调用 mathtools 宏包.

60 \RequirePackage{mathtools}

newtx 设置 Times New Roman, Helvetica.

- 61 \RequirePackage[defaultsups,nofontspec]{newtxtext}
- 62% \RequirePackage{newtxmath}

newtx 的 Mono 字体虽然很好看, 但在论文中不常见. 学校虽未要求 Mono 字体, 还是选择常见的 Courier 字体. 由于比较新的实现 TeX Gyre Cursor 会修改 \bfdefault, 导致中文加粗出问题, 所以选用标准 courier.

63 \RequirePackage{courier}

图形支持宏包.

- 64 \RequirePackage{graphicx}
- 65 \RequirePackage[labelformat=simple]{subcaption}

提供更加灵活的列表定制.

- 66 \RequirePackage[shortlabels]{enumitem}
- 67 \RequirePackage{environ}

禁止 LATEX 自动调整多余的页面底部空白,并保持脚注仍然在底部. 脚注按页编号.

- 68\ifshu@raggedbottom
- 69 \RequirePackage[bottom,perpage,hang]{footmisc}
- 70 \raggedbottom

71 \else

72 \RequirePackage[perpage,hang]{footmisc}

73 \fi

- 74\ifshu@pifootnote
- 75 \RequirePackage{pifont}

76 \fi

利用 CJK fntef 实现汉字的下划线和盒子内两段对齐,并可以避免 \makebox [$\langle width \rangle$] [$\langle s \rangle$] 可能产生的 underful boxes.

77 \RequirePackage{CJKfntef}

定理类环境宏包,其中 amsmath 选项用来兼容 AMS-TeX 的宏包

78 \RequirePackage[amsmath,thmmarks,hyperref]{ntheorem}

表格控制

- 79 \RequirePackage{array}
- 80 \RequirePackage{longtable}
- 81 \RequirePackage{makecell}

使用三线表: \toprule, \midrule, \bottomrule.

 ${\tt 82 \backslash RequirePackage\{booktabs\}}$

定制灵活的文字下划线格式.

参考文献引用宏包.

84 \RequirePackage[numbers,sort&compress]{natbib}

4.4 页面设置 4 实现细节

删除默认模板 (book.cls) 在章之间引入的垂直间隔. 要放在 hyperref 之前.

```
85\patchcmd{\@chapter}{\addtocontents{lof}{\protect\addvspace{10\p@}}}{}{}}} % lof
86 \neq \{0\
    生成有书签的 pdf 及其开关,请结合 gbk2uni 避免书签乱码.
87 \RequirePackage{hyperref}
88\ifxetex
   \hypersetup{%
     CJKbookmarks=true}
90
91 \else
   \hypersetup{%
     unicode=true,
93
     CJKbookmarks=false}
95 \fi
96 \hypersetup{%
   linktoc=all,
   bookmarksnumbered=true,
   bookmarksopen=true,
   bookmarksopenlevel=2,
   breaklinks=true,
   colorlinks=true,
   plainpages=false}
104\ifshu@nocolor
105 \hypersetup{%
   citecolor=black,
   linkcolor=black,
107
   urlcolor=black}
109 \else
110 \hypersetup{%
   citecolor=blue,
   linkcolor=blue,
   urlcolor=blue}
113
114\fi
   dvips 模式下网址断字有问题, 请手工加载 breakurl 宏包解决之.
    设置 url 样式, 与上下文一致
```

4.4 页面设置

115 \urlstyle{same}

本来这部分应该是最容易设置的, 但根据格式规定出来的结果跟学校的 WORD 样例相差很大, 所以只能微调.

```
116 \RequirePackage{geometry}
117 \geometry{
118    a4paper,
119    ignoreall,
120    nomarginpar}
121 \geometry{
122    left=28mm,
123    right=28mm,
```

4.5 交叉引用 实现细节

- headheight=8mm, 124
- headsep=7mm, 125
- top=30mm, 126
- bottom=26mm,
- footskip=7mm}

利用 fancyhdr 设置页眉页脚.

129 \RequirePackage{fancyhdr}

交叉引用 4.5

\ref 交叉引用是 LATEX 中一种常用的自动化工具,它的使用可以分成两个部分: 定义标签和引用标 \autoref 签. ShuThesis 提供两种引用方式: \ref, \autoref. 命令 \ref 是 LATeX 自带的命令, 用法比较 简单, 可定制性差. \autoref 由宏包 hyperref 提供, 功能强大, 定制性也比较好.

- 130 \def\theoremautorefname{定理}
- 131 \def\lemmaautorefname{引理}
- 132 \def\definitionautorefname{定义}
- 133 \def\corollaryautorefname{推论}
- 134 \def\propositionautorefname{命题}
- 135 (/cls)

主文档格式 4.6

4.6.1 Three matters

对于 openright 选项, 必须保证章首页右开, 且如果前章末页无内容须清空其页眉页脚. \cleardoublepage

136 (*cls)

137 \let\shu@cleardoublepage\cleardoublepage

138 \newcommand{\shu@clearemptydoublepage}{%

139 \clearpage{\pagestyle{shu@empty}\shu@cleardoublepage}}

140 \let\cleardoublepage\shu@clearemptydoublepage

重新定义\frontmatter,\mainmatter和\backmatter. \frontmatter

\mainmatter 141\renewcommand\frontmatter{%

\backmatter

- \if@openright\cleardoublepage\else\clearpage\fi 142
- \@mainmatterfalse 143
- 144 \pagenumbering{Roman}
- 145 \pagestyle{shu@empty}}
- 146 \renewcommand\mainmatter{%
- \if@openright\cleardoublepage\else\clearpage\fi 147
- 148 \@mainmattertrue
- \pagenumbering{arabic} 149
- \pagestyle{shu@headings}}
- 151 \renewcommand\backmatter{%
- \if@openright\cleardoublepage\else\clearpage\fi
- \@mainmattertrue}
- 154 (/cls)

4.6.2 字体

\normalsize 正文小四号 (12bp) 字, 行距为固定值 20 bp. 设置文字与公式的垂直距离.

155 **(*cls)**

156 \renewcommand\normalsize{%

- 157 \@setfontsize\normalsize{12bp}{20bp}%
- 158 \abovedisplayskip=13bp \@plus 2bp \@minus 2bp
- 159 \abovedisplayshortskip=13bp \@plus 2bp \@minus 2bp
- 160 \belowdisplayskip=\abovedisplayskip
- 161 \belowdisplayshortskip=\abovedisplayshortskip}

WORD 中的字号对应该关系如下 (1bp = 72.27/72 pt):

初号	42bp	14.82mm	42.1575pt
小初	36bp	12.70mm	36.135 pt
一号	26bp	9.17mm	26.0975pt
小一	24bp	8.47mm	24.09pt
二号	22bp	7.76mm	22.0825pt
小二	18bp	6.35mm	18.0675pt
三号	16bp	5.64mm	16.06pt
小三	15bp	5.29mm	15.05625pt
四号	14bp	4.94mm	14.0525pt
小四	12bp	4.23mm	12.045pt
五号	10.5bp	3.70mm	10.59375pt
小五	9bp	3.18mm	9.03375pt
六号	7.5bp	2.56mm	
小六	6.5bp	2.29mm	
七号	5.5bp	1.94mm	
八号	5bp	1.76mm	

\shu@def@fontsize 根据习惯定义字号. 用法: \shu@def@fontsize{\ 字号名称\}{\ 磅数\}. 所有字号定义时为单倍行距,并提供选项指定行距倍数.

162 \def\shu@def@fontsize#1#2{%

- 163 \expandafter\newcommand\csname #1\endcsname[1][1.3]{%
- 164 \fontsize{#2}{##1\dimexpr #2}\selectfont}}

\chuhao 一组字号定义, 也可以使用 ctex 宏包的 \zihao 替代.

\xiaochu 165 \shu@def@fontsize{maxsize}{57bp}
 \yihao 166 \shu@def@fontsize{chuhao}{42bp}
 \xiaoyi 167 \shu@def@fontsize{xiaochu}{36bp}

\erhao \land 168 \shu@def@fontsize{yihao}{26bp} \land 169 \shu@def@fontsize{xiaoyi}{24bp} \land xiaoer \land 160 \la

\tabel 170\shu@def@fontsize{erhao}{22bp}\sanhao 171\shu@def@fontsize{xiaoer}{18bp}\txiaosan 172\shu@def@fontsize{sanhao}{16bp}\sihao 173\shu@def@fontsize{xiaosan}{15bp}

\sihao 173\shu@def@fontsize{xiaosan}{15bp} \banxiaosi 174\shu@def@fontsize{sihao}{14bp}

\xiaosi

\dawu 19

. . .

```
175 \shu@def@fontsize{banxiaosi}{13bp}
176 \shu@def@fontsize{xiaosi}{12bp}
177 \shu@def@fontsize{dawu}{11bp}
178 \shu@def@fontsize{wuhao}{10.5bp}
179 \shu@def@fontsize{xiaowu}{9bp}
180 \shu@def@fontsize{liuhao}{7.5bp}
181 \shu@def@fontsize{xiaoliu}{6.5bp}
182 \shu@def@fontsize{qihao}{5.5bp}
183 \shu@def@fontsize{bahao}{5bp}
184 \/cls>
```

4.6.3 页眉页脚

设置页眉和页脚.

\ps@shu@empty

定义三种页眉页脚格式:

\ps@shu@plain \ps@shu@headings

- shu@empty: 页眉页脚都没有.
- shu@plain: 只显示页脚的页码. \chapter 自动调用 \thispagestyle{shu@plain}.
- shu@headings: 页眉页脚同时显示.

```
185 (*cls)
186 \fancypagestyle{shu@empty}{%
    \fancyhf{}
187
    \renewcommand{\headrulewidth}{0pt}
188
    \renewcommand{\footrulewidth}{0pt}}
189
190 \fancypagestyle{shu@plain}{%
    \fancyhead{}
191
    \fancyfoot[C]{\xiaowu\thepage}
192
    \renewcommand{\headrulewidth}{0pt}
193
    \renewcommand{\footrulewidth}{0pt}}
194
195 \fancypagestyle{shu@headings}{%
    \fancyhead{}
196
    \fancyhead[L]{\xiaowu 上海大学\shu@cdegree 学位论文}
197
198
    \fancyfoot{}
    \fancyfoot[C]{\wuhao\thepage}
199
    \renewcommand{\headrulewidth}{0.4pt}
200
    \renewcommand{\footrulewidth}{Opt}}
201
202 \fancypagestyle{shu@onlyhead}{%
203
    \fancyhead{}
    \fancyhead[L]{\xiaowu 上海大学\shu@cdegree 学位论文}
204
    \renewcommand{\headrulewidth}{0.4pt}}
205
206 (/cls)
```

4.6.4 段落

全文首行缩进2字符.

```
207 (*cls)
208 \ctexset{%
209 space=auto,
210 autoindent=true}
```

```
利用 enumitem 命令调整默认列表环境间的距离,以符合中文习惯.
```

211 \setlist{nosep}

212 (/cls)

4.6.5 脚注

脚注符合中文习惯,数字带圈.

```
\shu@textcircled 生成带圈的脚注数字, 最多处理到 10.
```

```
213 (*cls)
```

214 \def\shu@textcircled#1{%

215 \ifnum\value{#1} >9

216 \ClassError{shuthesis}%

217 {Too many footnotes in this page.}{Keep footnote less than 10.}

218 \fi

219 \ifshu@pifootnote%

 $\label{limits} $$220 \qquad \ding{\tilde{\#1}+171\relax}% $$$

221 \else%

222 \textcircled{\xiaoliu\arabic{#1}}%

223 \fi}

224\renewcommand{\thefootnote}{\shu@textcircled{footnote}}

定义脚注分割线, 字号 (宋体小五), 以及悬挂缩进 (1.5 字符).

 $226 \end{footnoterule } \end{footnoterule }$

227 \let\shu@footnotesize\footnotesize

228 \renewcommand\footnotesize{\shu@footnotesize\xiaowu[1.5]}

229 \footnotemargin1.5em\relax

\@makefnmark 默认是上标样式,而在脚注部分要求为正文大小. 利用 \patchcmd 动态调

整 \@makefnmark 的定义.

230 \let\shu@makefnmark\@makefnmark

231 \def\shu@@makefnmark{\hbox{{\normalfont\@thefnmark}}}

 ${\tt 232 \pretocmd{\@makefntext}{\let\@makefnmark\shu@@makefnmark}{}{}}}$

234 (/cls)

4.6.6 数学相关

允许太长的公式断行、分页等.

235 (cls)\allowdisplaybreaks[4]

公式随着章的不同而编号.

236 (cls)\numberwithin{equation}{chapter}

定义定理类环境,包括定义、定理、引理以及推论等.

237 (*cfg)

238 \theoremheaderfont{\normalfont\bfseries}

239 \theoremstyle{plain}

240 \theoremsymbol{}

241 \theoremseparator{}

```
242\newtheorem{assumption}{假设}[chapter]
243 \newtheorem{proposition}{命题}[chapter]
244\newtheorem{lemma}{引理}[chapter]
245 \newtheorem{theorem}{定理}[chapter]
246\newtheorem{axiom}{公理}[chapter]
247\newtheorem{corollary}{推论}[chapter]
248 \newtheorem{exercise}{练习}[chapter]
249 \newtheorem{example}{例}[chapter]
250 \newtheorem{problem}{问题}[chapter]
251 \newtheorem{conjecture}{猜想}[chapter]
252 \theorembodyfont{\normalfont}
253 \newtheorem{definition}{定义}[chapter]
254\newtheorem{remark}{注释}[chapter]
255 \theoremsymbol{\ensuremath{\square}}
256 \newtheorem*{proof}{证明:}
257 (/cfg)
```

4.6.7 浮动对象以及表格

设置浮动对象和文字之间的距离

```
258 (*cls)
259 \setlength{\floatsep}{20bp \@plus4pt \@minus1pt}
260 \setlength{\intextsep}{20bp \@plus4pt \@minus2pt}
261 \setlength{\textfloatsep}{20bp \@plus4pt \@minus2pt}
262 \setlength{\@fptop}{0bp \@plus1.0fil}
263 \setlength{\@fpsep}{12bp \@plus2.0fil}
264 \setlength{\@fpbot}{0bp \@plus1.0fil}
```

下面这组命令使浮动对象的缺省值稍微宽松一点,从而防止幅度对象占据过多的文本页面,也可以防止在很大空白的浮动页上放置很小的图形.

```
265 \renewcommand{\textfraction}{0.15}
266 \renewcommand{\topfraction}{0.85}
267 \renewcommand{\bottomfraction}{0.65}
268 \renewcommand{\floatpagefraction}{0.60}
```

定制浮动图形和表格标题样式

• 图表标题字体为 11pt, 这里写作大五号

- 去掉图表号后面的冒号. 图序与图名文字之间空一个汉字符宽度。
- 图: caption 在下, 段前空 6 磅, 段后空 12 磅
- 表: caption 在上, 段前空 12 磅, 段后空 6 磅

```
269 \let\old@tabular\@tabular
270 \def\shu@tabular{\dawu[1.5]\old@tabular}
271 \DeclareCaptionLabelFormat{shu}{{\dawu[1.5]\heiti #1~\rmfamily #2}}
272 \DeclareCaptionLabelSeparator{shu}{\hspace{1em}}
273 \DeclareCaptionFont{shu}{\dawu[1.5]}}
274 \captionsetup{labelformat=shu,labelsep=shu,font=shu}
275 \captionsetup[table] {position=top,belowskip={12bp-\intextsep},aboveskip=6bp}}
276 \captionsetup[figure] {position=bottom,belowskip={12bp-\intextsep},aboveskip=6bp}}
277 \captionsetup[sub] {font=shu,skip=6bp}}
278 \renewcommand{\thesubfigure}{(\alph{subfigure})}
```

```
279 \renewcommand{\thesubtable}{(\alph{subtable})}
280%\renewcommand{\p@subfigure}{:}
    我们采用 longtable 来处理跨页的表格. 同样我们需要设置其默认字体为五号.
281 \let\shu@LT@array\LT@array
282 \def\LT@array{\dawu[1.5]\shu@LT@array} % set default font size
283 (/cls)
4.6.8 章节标题
284 (*cfg)
285 \ctexset{%
   chapter/name={第,章},
286
   appendixname= 附录,
287
   contentsname={目\hspace{\ccwd} 录},
288
   listfigurename={插图索引},
289
   listtablename={表格索引},
290
   figurename={图},
291
   tablename={表},
292
   bibname={参考文献},
293
   indexname={索引},
294
295 }
296 \newcommand\equationname{公式}
297\newcommand{\cabstractname}{摘\hspace{\ccwd} 要}
298 \newcommand{\eabstractname}{ABSTRACT}
299 \let\CJK@todaysave=\today
300 \def\CJK@todaysmall{\the\year 年 \the\month 月}
301\def\CJK@todaybig{\the\year} 年\the\month} 月}
302 \def\CJK@today{\CJK@todaysmall}
303 \renewcommand\today{\CJK@today}
304 \newcommand\CJKtoday[1][1]{%
   \ifcase#1\def\CJK@today{\CJK@todaysave}
305
     \or\def\CJK@today{\CJK@todaysmall}
306
     \or\def\CJK@today{\CJK@todaybig}
307
  \fi}
308
309 (/cfg)
    如果章节题目中的英文要使用 arial, 那么就加上 \sffamily.
310 (*cls)
311 \def\shu@title@font{%
312 \ifshu@arialtitle\sffamily\else\relax\fi}
    fancyhdr 定义页眉页脚很方便, 但是有一个非常隐蔽的坑. 通过 fancyhdr 定义的样式在
第一次被调用时会修改 \chaptermark, 这会导致页眉信息错误 (多余章号并且英文大写). 这是
因为在原始的 book.cls 中定义如下 (大意):
 \newcommand\chaptername{Chapter}
\newcommand\@chapapp{\chaptername}
```

\markboth{**MakeUppercase**{\@chapapp\ \thechapter}}{}}

\def\chaptermark#1{

很显然这个 \chapapp 不适合中文, 因此我们使用 \CTEXthechapter (如, "第 x 章"), 同时会将 \MakeUppercase 去掉. 也就是说我们会做如下动作:

```
\renewcommand{\chaptermark}[1]{\@mkboth{\CTEXthechapter\hskip\ccwd#1}{}}
```

但是, fancyhdr 不知何故在 \ps@fancy 中对 \chaptermark 进行重定义, 而这个 \ps@fancy 会在 \fancypagestyle 中使用, 如下:

```
\newcommand{\fancypagestyle}[2]{%
\@namedef{ps@#1}{\let\fancy@gbl\relax#2\relax\ps@fancy}}
```

这样的话, \ps@fancy 会在 fancyhdr 定义的任何样式首次样被激活时调用, 从而覆盖我们的 \chaptermark 定义 (后续样式再激活不会重复覆盖). 所以我们采用如下方法解决:

313 \AtBeginDocument{%

339

- 314 \pagestyle{shu@empty}
- 1315 \renewcommand{\chaptermark}[1]{\@mkboth{\CTEXthechapter\hskip\ccwd#1}{}}}

 各级标题格式设置.
- **chapter** 章序号与章名之间空一个汉字符黑体小二号字, 居中书写, 单倍行距, 段前空 24 磅, 段后空 18 磅.
- section 一级节标题, 例如: 3.1 本文主要结论以及证明 . 节标题序号与标题名之间空一个汉字符. 采用黑体三号 (16pt) 字居左书写, 行距为固定值 20 磅, 段前空 24 磅, 段后空 6 磅.
- subsection 二级节标题,例如: 3.1.1 主要结论 . 采用黑体小四号 (12pt) 字居左书写, 行距为固定值 20 磅, 段前空 12 磅, 段后空 6 磅.

```
316 \newcommand\shu@chapter@titleformat[1]{%
317
    \ifthenelse%
         {\equal{#1}{\eabstractname}}%
318
         {\bfseries #1}%
319
320
         {#1}%
321 }
322 \ctexset{%
    chapter={
323
324
       afterindent=true,
      pagestyle={shu@headings},
325
      beforeskip={9bp},
326
      aftername=\hskip\ccwd,
327
      afterskip={24bp},
328
      format={\centering\shu@title@font\heiti\xiaoer[1]},
329
      nameformat=\relax,
330
      number=\chinese{chapter},
331
      numberformat=\relax,
332
      titleformat=\shu@chapter@titleformat,
333
    },
334
335
    section={
      afterindent=true,
336
      beforeskip={24bp\@plus 1ex \@minus .2ex},
337
      afterskip={6bp\@plus .2ex},
338
```

format={\shu@title@font\heiti\sanhao[1.4]},

```
340
    subsection={
341
      afterindent=true,
342
      beforeskip={16bp\@plus 1ex \@minus .2ex},
      afterskip={6bp \@plus .2ex},
      format={\shu@title@font\heiti\sihao[1.5]},
345
    },
346
    subsubsection={
347
348
      afterindent=true,
      beforeskip={16bp\@plus 1ex \@minus .2ex},
349
      afterskip={6bp \@plus .2ex},
      format={\csname shu@title@font\endcsname\heiti\sihao[1.6]},
351
352
    paragraph/afterindent=true,
353
    subparagraph/afterindent=true}
```

\shu@chapter*

\shu@chapter*[〈tocline〉] {〈title〉} [〈header〉]: tocline 是出现在目录中的条目, 如果为空则此 chapter 不出现在目录中, 如果省略表示目录出现 title; title 是章标题; header 是页眉出现的标题, 如果忽略则取 title.

```
355 \newcounter{shu@bookmark}
356 \NewDocumentCommand\shu@chapter{s o m o}{
357
     \IfBooleanF{#1}{\%}
       \ClassError{shuthesis}{You have to use the star form: \string\shu@chapter*}{}
358
359
     \verb|\if@openright\cleardoublepage\else\clearpage\fi\phantomsection%| \\
360
     \IfValueTF{#2}{%
361
       \ifthenelse{\equal{#2}{}}{%
         \addtocounter{shu@bookmark}\@ne
363
         \pdfbookmark[0]{#3}{shuchapter.\theshu@bookmark}
364
365
       }{%
         \addcontentsline{toc}{chapter}{#3}
367
       }
     }{%
368
369
       \addcontentsline{toc}{chapter}{#3}
    }%
370
     \chapter*{#3}%
371
     \IfValueTF{#4}{%
372
       \left\{ \left( 4\right) \right\} 
373
       {\mbox{\color=0.05\columnwidth}}}
374
       {\@mkboth{#4}{#4}}
375
376
    }{%
377
       \@mkboth{#3}{#3}
    }
378
379 }
380 (/cls)
```

4.6.9 目录

```
最多 4 层, 即: x.x.x.x, 对应的命令和层序号分别是: \chapter(0), \section(1),
                  \subsection(2), \subsubsection(3).
                  381 (*cls)
                  382 \setcounter{secnumdepth}{3}
                  383 \setcounter{tocdepth}{2}
                 调整目录样式.
\tableofcontents
                  384 \def\@pnumwidth{2em}
                  385 \def\@tocrmarg{\@pnumwidth}
                  386 \def\@dotsep{1}
                  387\patchcmd{\@dottedtocline}{#4}{\csname shu@toc@font\endcsname #4}{}{}
                  388 \patchcmd{\@dottedtocline}{\hb@xt@\@pnumwidth}{\hbox}{}{}
                  389 \renewcommand*\l@chapter[2]{%
                      \ifnum \c@tocdepth >\m@ne
                  390
                  391
                        \addpenalty{-\@highpenalty}%
                        \vskip 4bp \@plus\p@
                  392
                        \setlength\@tempdima{3.7em}%
                  393
                        \begingroup
                  394
                          \parindent \z@ \rightskip \@pnumwidth
                  395
                          \parfillskip -\@pnumwidth
                  396
                          \leavevmode
                  397
                          \advance\leftskip\@tempdima
                  398
                          \hskip -\leftskip
                  399
                          % numberline is called here, and it uses \@tempdima
                  400
                          {\csname shu@toc@font\endcsname\heiti #1}
                  401
                          \leaders\hbox{$\m@th\mkern \@dotsep mu\hbox{.}\mkern \@dotsep mu$}\hfill
                  402
                          \nobreak{\normalfont\normalcolor #2}\par
                  403
                          \penalty\@highpenalty
                  404
                        \endgroup
                  405
                      \fi}
                  406
                  407 (/cls)
                  4.6.10 封面和封底
                定义封面的一些替换命令.
   \shu@def@term
                  408 (*cls)
                  409 \def\shu@def@term#1{%
                      \define@key{shu}{#1}{\csname #1\endcsname{##1}}
                      \expandafter\gdef\csname #1\endcsname##1{%
                  411
                        \expandafter\gdef\csname shu@#1\endcsname{##1}}
                  412
                  413
                      \csname #1\endcsname{}}
    \secretlevel 定义密级参数.
     \secretyear 414\shu@def@term{secretlevel}
                  415 \shu@def@term{secretyear}
            \id 学号、中图分类号.
  \catalognumber 416\shu@def@term{id}
```

```
417\shu@def@term{catalognumber}
                  作者姓名.
          \cauthor
          \eauthor 418\shu@def@term{cauthor}
                   419 \shu@def@term{eauthor}
                   导师姓名.
      \csupervisor
      \esupervisor 420\shu@def@term{csupervisor}
                   421\shu@def@term{esupervisor}
           \ctitle 论文中英文题目.
           \etitle 422\shu@def@term{ctitle}
                   423 \shu@def@term{etitle}
      \cdepartment 院系名称.
      \edepartment 424\shu@def@term{cdepartment}
                   425\shu@def@term{edepartment}
           \cmajor 所学专业名称.
           \emajor 426\shu@def@term{cmajor}
                   427\shu@def@term{emajor}
                  学科分类.
     \cdisciplines
     \edisciplines 428\shu@def@term{cdisciplines}
                   429 \shu@def@term{edisciplines}
            \cdate 论文成文日期.
            \edate 430\shu@def@term{cdate}
        \coverdate 431\shu@def@term{edate}
                   432\shu@def@term{coverdate}
         cabstract 摘要以环境的形式出现.
         eabstract 433 \newcommand{\shu@@cabstract}[1]{\long\gdef\shu@cabstract{#1}}
                   434 \newenvironment{cabstract}{\Collect@Body\shu@@cabstract}{}
                   435 \newcommand{\shu@eabstract}[1]{\long\gdef\shu@eabstract{#1}}
                   436 \newenvironment{eabstract}{\Collect@Body\shu@@eabstract}{}
                   不同论文格式关键词之间的分割不太相同, 我们用 \ckeywords 和 \ekeywords 来收集关键词
\shu@parse@keywords
                   列表, 然后用本命令来生成符合要求的格式.
                   437 \def\shu@parse@keywords#1#2{
                       438
                       \expandafter\gdef\csname shu@#1\endcsname{}
                   439
                   440
                       \expandafter\gdef\csname #1\endcsname##1{
                         \@for\reserved@a:=##1\do{
                   441
                           \expandafter\ifx\csname shu@#1\endcsname\@empty\else
                   442
                             \expandafter\g@addto@macro\csname shu@#1\endcsname{%
                   443
                   444
                               \ignorespaces\csname #2\endcsname}
                   445
                           \fi
                           \expandafter\expandafter\expandafter\g@addto@macro%
                   446
                           \expandafter\csname shu@#1\expandafter\endcsname\expandafter{\reserved@a}
                   447
```

```
}
                449
                     }
                450 }
                利用 \shu@parse@keywords 来定义, 内部通过 \shu@ckeywords 和 \shu@ekeywords 来引用.
    \ckeywords
    \ekeywords
               451 \shu@parse@keywords{ckeywords}{shu@ckeywords@separator}
                452\shu@parse@keywords{ekeywords}{shu@ekeywords@separator}
                453 (/cls)
               封面和封底有一大堆信息需要设置,为了简化操作界面,提供一个\shusetup 命令支持 key/-
     \shusetup
                value 的方式来设置. key 就是前面各个设置项的名字.
                     说明: 只能设置普通项, 不支持环境项, 如 cabstract 和 eabstract.
                454 (cls)\def\shusetup{\kvsetkeys{shu}}
                    定义封面用到的部分文字.
                455 (*cfg)
                456 \def\shu@ckeywords@separator{; }
                457 \def\shu@ekeywords@separator{;}
                458 \def\shu@secretyear{\the\year}
                459 \def\shu@secret@content{%
                    \unskip~$\bigstar$ %
                   \shu@secretyear~ 年}
                462 \def\shu@cdegree{\ifshu@doctor 博士\else 硕士\fi}
                463 \def\shu@edegree{\ifshu@doctor Doctor\else Master\fi}
                464 \cdate{\CJK@todaybig}
                465 \edate{\ifcase \month \or January\or February\or March\or April\or May%
                         \or June\or July \or August\or September\or October\or November
                466
                467
                         \or December\fi\unskip,\ \ \the\year}
                468 \newcommand{\shu@ckeywords@title}{关键词:}
                469 (/cfg)
   封面第一页
\shu@first@page
                470 (*cls)
                471 \def\shu@first@page{\renewcommand{\ULthickness}{1.8pt}%
                472 {\noindent\ifxetex\XBSong\else\bfseries\songti\fi%
                473 中图分类号:{\bfseries\shu@catalognumber}\hfill 单位代号:{\bfseries 10280\hphantom{000}}\\
                474 密\hphantom{空白空} 级: \expandafter\ifshu@secret\shu@secret@content\else%
                475 \shu@secretlevel\fi\hfill 学\hphantom{空白} 号: {\bfseries\shu@id}}
                476 \par\vskip1mm
                   \noindent\uline{\hskip105mm}\par\vskip2mm
                     \ifshu@nocolor
                478
                     \raisebox{1ex}[0pt][0pt]{
                479
                     \includegraphics[height=3cm,width=9.8cm]{shublack.pdf}}\hskip5mm
                480
                481
                     \includegraphics[height=3.3cm,width=2.7cm]{shulogoblack.pdf}
                482
                     \else
                     \raisebox{1ex}[0pt][0pt]{
                483
                     \includegraphics[height=3cm,width=9.8cm]{shu.pdf}}\hskip5mm
                484
                485
                     \includegraphics[height=3.3cm,width=2.7cm]{shulogo.pdf}\fi\par\vskip5mm
```

\hskip3mm{\maxsize\ifxetex\LanTingHei\else\bfseries\heiti\fi\shu@cdegree 学位论文}

486

```
487 \par\vskip-1mm
488 \noindent\uline{\hskip\linewidth}\par\vskip1mm
489 {\zihao{-1}\bfseries
    \centerline{SHANGHAI~~UNIVERSITY}
    \centerline{\MakeUppercase{\shu@edegree}'S~~DISSERTATION}}
492 \begin{center}
    {\setlength\arrayrulewidth{1pt}
    \begin{tabular}{|c|c|}
494
495
      \hline
      \begin{minipage}[c][4cm][c]{2.5em}
496
        \centering%
        \zihao{-2}\ifxetex\HanYikai\else\bfseries\kaishu\fi\makecell{题\\ 目}
498
499
      \end{minipage}
500
      \begin{minipage}[c][4cm][c]{11cm}
501
        \centering%
502
503
        \erhao[1.4]\bfseries\ifxetex\LanTingHei\else\heiti\fi
        \shu@ctitle
504
      \end{minipage}
505
      \\\hline
506
507
    \end{tabular}}
508 \end{center}
509 \vfill\renewcommand{\ULthickness}{1pt}
510 \begin{center}
    {\heiti\xiaoer[1.9]
511
    \begin{tabular}{cc}
512
      \makebox[4em][s]{作者}
                                       & \uline{\kaishu\makebox[12em]{\shu@cauthor}}\\
513
      \makebox[4em][s]{学科专业}
                                       & \uline{\kaishu\makebox[12em]{\shu@cmajor}}\\
514
      \makebox[4em][s]{导师}
                                       & \uline{\kaishu\makebox[12em]{\shu@csupervisor}}\\
      \makebox[4em][s]{完成日期}
                                       & \uline{\kaishu\makebox[12em]{\shu@coverdate}}\\
516
    \end{tabular}}
518 \end{center}
519 \if@openright\cleardoublepage\else\clearpage\fi}
    论文封面第一页.
520 \newcommand{\makefirstpage}{
521 \newgeometry{left=3.5cm,right=3.5cm,top=3cm,bottom=3.5cm}
522 \shu@first@page
523 \restoregeometry}
524 (/cls)
525 (*cls)
526 \newcommand{\shu@committee}{
527 \pagestyle{shu@onlyhead}
528 {\noindent 姓\hphantom{空白} 名: {\shu@cauthor}\hfill 学号: {\shu@id}\\
   论文题目: \let\\=\relax{\shu@ctitle}} \par
530 \vskip1.5cm
531 \noindent\centerline{\zihao{2} 上海大学} \par
532 \vskip1.5cm
```

答辩委员签名 \shu@committee

- 533 \erhao[1.5] 本论文经答辩委员会全体委员审查,
- 534 确认符合上海大学\shu@cdegree 学位论文质量要求。\par
- 535 \vskip3.9cm
- 536 \zihao{-2} 答辩委员会签名:\par
- 537 \vskip1cm
- 538 主席:\par
- 539 \vskip1cm
- 540 委员:\par
- 541 \vskip5cm
- 542 导\hphantom{空白} 师:\par
- 543 \vskip1cm
- 544 答辩日期:
- 545 \if@openright\cleardoublepage\else\clearpage\fi
- 546
- 547 (/cls)

原创性声明

\shu@authordeclare

- 548 **(*cls)**
- 549 \newcommand{\shu@authordeclare}{%
- 550 {\noindent 姓\hphantom{空白} 名: {\shu@cauthor}\hfill 学号: {\shu@id}\\
- 552 \begin{center}
- 553 \zihao{2}\ifxetex\XBSong\else\bfseries\songti\fi 原创性声明
- 554 \end{center}
- 555 \par\vskip1cm\sihao[1.7]
- 556 本人声明: 所呈交的论文是本人在导师指导下进行的研究工作。
- 557 除了文中特别加以标注和致谢的地方外,论文中不包含其他人已发表或撰写过
- 558 的研究成果。参与同一工作的其他同志对本研究所做的任何贡献均已在论文中
- 559 作了明确的说明并表示了谢意。
- 560 \vskip2.3cm
- 561 \hfill 签名: \underline{\hskip3cm}
- 562 日期: \underline{\hskip3cm}\\
- 563 \vskip2.5cm
- 564 \begin{center}
- 565 \zihao{2}\ifxetex\XBSong\else\bfseries\songti\fi 本论文使用授权说明
- 566 \end{center}
- 567 \par\vskip1.1cm
- 568 本人完全了解上海大学有关保留、使用学位论文的规定。即:学校有权保留论文
- 569 及送交论文复印件,允许论文被查阅和借阅,学校可以公布论文的全部或部分内容。\par
- 570 ({\ifxetex\XBSong\else\bfseries\songti\fi 保密的论文在解密后应遵守此规定})
- 571 \vskip1.5cm
- 572 \noindent\hfill 签名: \underline{\hskip2.7cm}
- 573 导师签名: \underline{\hskip2.7cm}
- 574 日期: \underline{\hskip2.7cm}\hfill
- 575 \if@openright\cleardoublepage\else\clearpage\fi}
- 576 (/cls)

中文题页

\shu@cncover

577 **(*cls)**

4.6 主文档格式 实现细节

```
578 \newcommand{\shu@cncover}{%
            579 \vspace*{1.3cm}
            580 \centerline{\zihao{2} 上海大学\shu@cdisciplines\shu@cdegree 学位论文}
            582 \begin{center}\yihao[1.5]{\bfseries{\shu@ctitle}}\end{center}
            583 \vskip3.5cm
            584 \begin{center}\xiaoer[1.8]
                \begin{tabular}{cc}
            586
                 \makebox[4em][s]{作者}:
                                              & \uline{\kaishu\makebox[12em]{\shu@cauthor}}\\
                 \makebox[4em][s]{导师}:
                                              & \uline{\kaishu\makebox[12em]{\shu@csupervisor}}\\
            587
                 \makebox[4em][s]{学科专业}: & \uline{\kaishu\makebox[12em]{\shu@cmajor}}\\
                \end{tabular}
            590 \end{center}
            591 \vskip3.5cm
            592 \begin{center}
            593 \sanhao[1.6]\shu@cdepartment\\
            594 上海大学\\
            595 \shu@cdate
            596 \end{center}
            597 \if@openright\cleardoublepage\else\clearpage\fi}
            598 (/cls)
            599 (*cls)
            600 \newcommand{\shu@engcover}{%
            601 \vspace*{.5cm}
            602 \begin{center}
            603 \sanhao[1.6] A Dissertation Submitted to Shanghai University
            604 for the \\ Degree of \shu@edegree~in \shu@edisciplines\par
            605 \vskip3cm
            606 \begin{center}\zihao{1}{\bfseries{\shu@etitle}}\end{center}
            607 \vskip3cm
            608 \begin{tabular}{rl}
            609 Candidate: & \shu@eauthor\\
            610 Supervisor: & \shu@esupervisor\\
            611 Major:
                           & \shu@emajor\\
            612 \end{tabular}
            613 \vskip3cm
            614 \bfseries\shu@edepartment\\
            615 Shanghai University\\
            616 \shu@edate
            617 \end{center}
            618 \if@openright\cleardoublepage\else\clearpage\fi}
\makecover 生成封面总命令
            619 \def\makecover{\shu@setup@pdfinfo\shu@makecover}
            620 \def\shu@setup@pdfinfo{
                \hypersetup{
            621
                  pdftitle={\shu@ctitle},
            622
```

英文题页 \shu@engcover

```
pdfauthor={\shu@cauthor},
623
      pdfsubject={\shu@cdegree},
624
625
      pdfkeywords={\shu@ckeywords},
      pdfcreator={\shuthesis-v\version}}}
626
627 \newcommand{\shu@makecover}{
    \phantomsection
628
    \pdfbookmark[-1]{\shu@ctitle}{ctitle}
    \normalsize
    答辩委员签名
631 \shu@committee
632 \normalsize
    原创性声明
633 \shu@authordeclare
    中文题页
634 \shu@cncover
    英文题页
635 \shu@engcover
    中英文摘要
636 \normalsize
637 \shu@makeabstract
638 \let\@tabular\shu@tabular
639 \if@openright\cleardoublepage\else\clearpage\fi}
640 (/cls)
4.6.11 摘要
排版关键字.
641 (*cls)
642 \newbox\shu@kw
643 \newcommand\shu@put@keywords[2]{%
    \begingroup
644
      \setbox\shu@kw=\hbox{#1}
645
      \noindent\hangindent\wd\shu@kw\hangafter1%
646
      \box\shu@kw#2\par
647
    \endgroup}
648
中文摘要部分的标题为摘要,用黑体小二号字.
649 \newcommand{\shu@makeabstract}{%
    \shu@chapter*[]{\cabstractname}
650
      \pagestyle{shu@headings}
651
652
      \pagenumbering{Roman}
    摘要内容用小四号字书写, 两端对齐, 汉字用宋体, 外文字用 Times New Roman 体.
    \shu@cabstract
    每个关键词之间空两个汉字符宽度,且为悬挂缩进.
    \vskip12bp
    \shu@put@keywords{\heiti\shu@ckeywords@title}{\shu@ckeywords}
```

\shu@put@keywords

\shu@makeabstract

英文摘要部分的标题为 Abstract, 用 Arial 体小二号字.

656 \shu@chapter*[]{\eabstractname}

摘要内容用小四号 Times New Roman.

657 \shu@eabstract

每个关键词之间空四个英文字符宽度.

- 658 \vskip12bp
- 659 \shu@put@keywords{%
- 660 \textbf{Keywords}:\enskip}{\shu@ekeywords}}
- 661 (/cls)

4.6.12 主要符号表

denotation 主要符号对照表.

```
662 (cfg)\newcommand{\shu@denotation@name}{主要符号对照表}
```

663 (*cls)

664 \newenvironment{denotation}[1][2.5cm]{%

- 665 \shu@chapter*[]{\shu@denotation@name} % no tocline
- 666 \vskip-30bp\xiaosi[1.6]\begin{shu@denotation}[labelwidth=#1]
- 667 }{%
- 668 \end{shu@denotation}
- 669
- 670 \newlist{shu@denotation}{description}{1}
- 671 \setlist[shu@denotation]{%
- 672 nosep,
- 673 font=\normalfont,
- 674 align=left,
- 675 leftmargin=5cm,
- 676 rightmargin=2.5cm,
- 677 labelindent=0pt,
- 678 labelwidth=2.5cm,
- 1abelsep*=0.5cm,
- 680 itemindent=0pt,
- 681 }
- $_{682}\left\langle /\text{cls}\right\rangle$

4.6.13 致谢

- 683 (*cls)
- 684\newenvironment{acknowledgement}{\shu@chapter*[致谢]{致\quad 谢}}{}
- 685 (/cls)

4.6.14 图表索引

```
\listoffigures 定义图表以及公式目录样式.
```

\listoffigures* 686 (*cls)

\listoftables 687\def\shu@starttoc#1{% #1: float type, prepend type name in \listof*** entry.

\listoftables* 688 \let\oldnumberline\numberline

- 690 \@starttoc{\csname ext@#1\endcsname}

4.7 参考文献 4 实现细节

4.7 参考文献

参考文献的设置依赖于 natbib 宏包,参考文献的正文部分用五号字. 行距采用固定值 16磅, 段前空 3磅, 段后空 0磅.

thebibliography

修改默认的 thebibliography 环境, 增加一些调整代码.

```
701 (*cls)
702 \renewenvironment{thebibliography}[1]{%
     \shu@chapter*{\bibname}%
703
     \wuhao[1.5]
704
705
     \list{\@biblabel{\@arabic\c@enumiv}}%
           {\renewcommand{\makelabel}[1]{##1\hfill}
706
            \settowidth\labelwidth{1.1cm}
707
            \setlength{\labelsep}{0em}
708
709
            \setlength{\itemindent}{0pt}
            \setlength{\leftmargin}{\labelwidth+\labelsep}
710
            \addtolength{\itemsep}{-0.7em}
711
            \usecounter{enumiv}%
712
713
            \let\p@enumiv\@empty
            \renewcommand\theenumiv{\@arabic\c@enumiv}}%
714
      \sloppy\frenchspacing
715
      \clubpenalty4000
716
717
      \@clubpenalty \clubpenalty
       \widowpenalty4000%
718
      \interlinepenalty4000%
719
      \sfcode'\.\@m}
720
721
     {\def\@noitemerr
        {\@latex@warning{Empty 'thebibliography' environment}}%
722
       \endlist\frenchspacing}
723
724 (/cls)
```

4.8 附录

appendix

```
725 (*cls)
726 \let\shu@appendix\appendix
727 \renewenvironment{appendix}{%
728 \let\title\shu@appendix@title
```

4.9 科研成果 5 版本历史

```
729 \shu@appendix}{%
730 \let\title\@gobble}
731 (/cls)
```

4.9 科研成果

publications

作者在攻读学位期间公开发表的论文和研究成果.

732 (*cfg)

733 \newcommand{\shu@publications@title}{作者在攻读\shu@cdegree 学位期间发表的论文与研究成果}

734 (/cfg)

735 **(*cls)**

736 \newenvironment{publications}[1][\shu@publications@title]{%

737 \shu@chapter*{#1}}{}

738 (/cls)

\researchitem

研究成果用 \researchitem{(类别)} 开启,包括 "学术论文" 和 "研究成果" 两个列表.

739 (*cls)

740 \newcommand{\researchitem}[1]{%

741 \vspace{32bp}{\sihao\heiti\centerline{#1}}\par\vspace{14bp}}

742 (/cls)

4.10 项目

projects 作者在攻读学位期间所作的项目.

743 (*cfg)

744 \newcommand{\shu@projects@title}{作者在攻读\shu@cdegree 学位期间所作的项目}

745 (/cfg)

746 (*cls)

747 \newenvironment{projects}[1][\shu@projects@title]{%

748 \shu@chapter*{#1}}{}

749 (/cls)

4.11 其它

在模板文档结束时即装入配置文件,这样用户就能在导言区进行相应的修改.

750 (*cls)

751 \AtEndOfClass{\input{shuthesis.cfg}}

752 \AtEndOfClass{\sloppy}

753 (/cls)

5 版本历史

6 索引

\tag{numbers} \text{\tex	\tag{6} \text{ amsmath (package) } 16 \text{ CJKtoday } 304 \text{ \(\text{ appendix } \) 705, 714 \text{ appendix } 726 \text{ ckeywords } 11, 451 \text{ \(\text{ appendix } \) 85, 86 \text{ apptocmd } 233 \text{ cleardoublepage } \text{ \(\text{ cleardoublepage } \text{ \(\text{ cleardoublepage } \) \(\text{ cleardoublep	Symbols	\allowdisplaybreaks 235	\CJKfamily 40, 42, 44
(@arabic 705,714 (appendix 726 (ckeywords 11,451 (@biblabel 705 appendix (environment) 12,725 (ClassError 22,48,216,358 (@clubpenalty 717 (arabic 222 136,142,147,152,360, (cleardoublepage (cleardoublepag	(@arabic 705,714 \appendix 726 \ckeywords 11,451 (@biblabel 705 appendix (environment) 12,725 \ClassError 22,48,216,358 (@chapter 85,86 \apptocmd 233 \cleardoublepage (@clubpenalty 717 \arabic 222 136,142,147,152,360, 360,39 \@dottedtocline 387,388,697 \arrayrulewidth 493 \clearpage \@for 441 \AtEndOfClass 751,752 139,142,147,152,360, 360,39 \@fpsep 263 \autoref 130 519,545,575,597,618,639 \cluberage \@flycop 262 B \cluberagor <	\ 720	\alph 278, 279	CJKfntef (package) 16
\@biblabel .705 appendix (environment) 12,725 \ClassError .22, 48, 216, 358 \@chapter .85, 86 \apptocmd .233 \cleardoublepage .216, 142, 147, 152, 360, \@clubpenalty .717 \arabic .222 136, 142, 147, 152, 360, \@dottedtocline .387, 388, 697 \arrayrulewidth .493 \clearpage \@for .441 \AtEndofClass .751, 752 139, 142, 147, 152, 360, \@fpbot .264 \autoref 130 519, 545, 575, 597, 618, 639 \@fpsep .263 \clubpenalty .716, 717 \@fptop .262 B \clubpenalty .716, 717 \@fptop .262 B \clubpenalty .716, 717 \@fptop .262 B \clubpenalty .716, 717 \@flegobble .730 \belowdisplayshortskip .161 \clubpenalty .716, 717 \@flegobble .391, 404 \belowdisplayshortskip .161 \coverdate \coverdate \coverdate \coverdate \coverdate \coverdate \coverdate \coverdate \coverdate \c	Webiblabel	\ 8, <u>165</u>	amsmath (package) 16	\CJKtoday 304
\@chapter 85,86 \apptocmd 233 \cleardoublepage \@clubpenalty 717 \arabic 222 136,142,147,152,360, \@dotsep 386,402 arialtitle (option) 7 519,545,575,597,618,639 \@dottedtocline 387,388,697 \arrayrulewidth 493 \clearpage \@for 441 \AtEndofClass 751,752 139,142,147,152,360, \@fpbot 264 \autoref 130 519,545,575,597,618,639 \@fpsep 263 B \clubpenalty 716,717 \@fptop 262 B \capprox \capp	\@chapter 85, 86 \apptocmd 233 \cleardoublepage \@clubpenalty 717 \arabic 222 136, 142, 147, 152, 360, \@dottedtocline 387, 388, 697 \arrayrulewidth 493 \clearpage \@for 441 \AtEndOfClass 751, 752 139, 142, 147, 152, 360, \@fpbot 264 \autoref 130 519, 545, 575, 597, 618, 639 \@fpsep 263 \clubpenalty 716, 717 \@fptop 262 B \cmajor 10, 426 \@gobble 730 \backmatter 141 \collect@Body 434, 436 \@highpenalty 391, 404 \belowdisplayshortskip 161 \corollaryautorefname 133 \@latex@warning 722 \belowdisplayskip 160 \coverdate 430 \@mainmatterfalse 143 \belowdisplayshortskip 161 \coverdate 430 \@makefnmark 230, 232, 233 \bigstar 460 \coverdate 430 \@makefntext 232, 233 \box 647 \creaxest 208, 285, 322 \@makefntext	\@arabic 705,714	\appendix	\ckeywords 11, <u>451</u>
\(\text{\certsize} \) \(\text{\certsize}	\(\) \(\	\@biblabel 705	appendix (environment) 12, 725	\ClassError 22, 48, 216, 358
\@dotsep 386, 402 arialtitle (option) 7 519, 545, 575, 597, 618, 639 \@dottedtocline 387, 388, 697 \arrayrulewidth 493 \clearpage \@for 441 \AtEndOfClass 751, 752 139, 142, 147, 152, 360, \@fpbot 264 \autoref 130 519, 545, 575, 597, 618, 639 \@fptop 263 \cluberal \club \	\(\) \(\)	\@chapter 85,86	\apptocmd 233	\cleardoublepage
\(\text{Qdottedtocline} \) 387, 388, 697 \(\text{arrayrulewidth} \) 493 \(\text{clearpage} \) \(\text{Qfor} \) 441 \(\text{AtEndofClass} \) 751, 752 139, 142, 147, 152, 360, \(\text{Qfpbot} \) 264 \(\text{autoref} \) 130 519, 545, 575, 597, 618, 639 \(\text{Qfptop} \) 262 B \(\text{cmajor} \) 10, 426 \(\text{Qgobble} \) 730 \(\text{backmatter} \) 141 \(\text{Collect\(\text{QBody} \) 434, 436 \(\text{Qheight} \) 391, 404 \(\text{belowdisplayshortskip} \) 161 \(\text{corollaryautorefname} \) 133 \(\text{Qilstare} \) 693 \(\text{belowdisplayskip} \) 160 \(\text{coverdate} \) 430 \(\text{Qlatex\(\text{Qwarning}} \) 722 \(\text{biname} \) 703 \(\text{citex} \) 693 \(\text{biosk.cls} \) (file) 17, 23 \(\text{Qmainmatterfalse} \) 143 \(\text{biosk.cls} \) (file) 17, 23 \(\text{ctexset} \) 208, 285, 322 \(\text{Qmakefnmark} \) 230, 232, 233 \(\text{biok} \) 232, 233 \(\text{biok} \) 360 \(\text{biok} \) 267, 714 \(\text{ctitle} \) 9, 422 \(\text{Qpnumwidth} \) 384, 385, 388, 395, 396 \(\text{cequumiv} \) 705, 714 \(\text{Dotter} \) 60 \(\text{cequumiv} \) 705, 714 \(\text{Dottertexperim counter} \) 50 \(\text{cequumiv} \) 705, 714	\@dottedtocline 387,388,697 \arrayrulewidth 493 \clearpage \@for 441 \AtEndOfClass 751,752 139,142,147,152,360, \@fpbot 264 \autoref 130 519,545,575,597,618,639 \@fptop 263 \clubpenalty 716,717 \@fptop 262 \backmatter \cmajor 10,426 \@gobble 730 \backmatter 141 \collect@Body 434,436 \@height 226 \banxiaosi \footnote(Body) 434,436 \@highpenalty 391,404 \belowdisplayshortskip 161 \courier(package) 16 \@ifstar 693 \belowdisplayshortskip 160 \coverdate 430 \@latex@warning 722 \bibname 703 \csupervisor 9,420 \@mainmattertralse 143 \bigstar 460 \ctex(package) 15 \@makefnmark 230,232,233 \box 647 \ctexthechapter 315 \@mkboth 315,374,375,377 \breakurl (pac	$\ensuremath{\texttt{@clubpenalty}}\ \dots \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	\arabic 222	<u>136</u> , 142, 147, 152, 360,
AtEndofClass 751,752 139,142,147,152,360,	\@for 441 \AtEndOfClass 751,752 139,142,147,152,360, \@fpbot 264 \autoref 130 519,545,575,597,618,639 \@fptop 263 \clubpenalty 716,717 \@fptop 262 B \cmajor 10,426 \@gobble 730 \backmatter 141 \collect@Body 434,436 \@height 226 \belowdisplayshortskip 165 \corollaryautorefname 133 \@highpenalty 391,404 \belowdisplayshortskip 161 \coverdate 430 \@ifstar 693 \bigstar 160 \coverdate 430 \@latex@warning 722 \bigstar 460 \coupervisor 9,420 \@mainmatterfalse 143 \book.cls (file) 17,23 \ctex(package) 15 \@makefnmark 230,232,233 \book.cls (file) 17,23 \ctexset 208,285,322 \@mkboth 315,374,375,377 \breakurl (package) 17 \ctitle 9,422 \@pnumwidth C \c@enumiv 705,714 \currentOption 21,22,23,31	\@dotsep 386,402	arialtitle (option) 7	519, 545, 575, 597, 618, 639
\@fpbot 264 \autoref 130 519, 545, 575, 597, 618, 639 \@fpsep 263 \clubpenalty 716, 717 \@fptop 262 B \cmajor 10, 426 \@gobble 730 \backmatter 141 \collect@Body 434, 436 \@height 226 \banxiaosi 165 \corollaryautorefname 133 \@highpenalty 391, 404 \belowdisplayshortskip 161 \coverdate 430 \@ifstar 693 \belowdisplayshortskip 160 \coverdate 430 \@latex@warning 722 \bipaname 703 \csupervisor 9, 420 \@mainmatterfalse 143 \bigstar 460 \ctex (package) 15 \@makefnmark 230, 232, 233 \book.cls (file) 17, 23 \ctexbook (package) 14, 15, 15 \@makefntext 232, 233 \box 647 \ctexset 208, 285, 322 \@noitemerr 721 \center (package) 17 \ctextextextextextextextextextextextextext	\@fpbot 264 \autoref 130 519,545,575,597,618,639 \@fpsep 263 \clubpenalty 716,717 \@fptop 262 B \cmajor 10,426 \@gobble 730 \backmatter 141 \Collect@Body 434,436 \@height 226 \banxiaosi 165 \corollaryautorefname 133 \@highpenalty 391,404 \belowdisplayshortskip 161 \coverdate 430 \@ifstar 693 \bibname 703 \coverdate 430 \@latex@warning 722 \bibname 703 \csupervisor 9,420 \@mainmatterfalse 143 \bigstar 460 \csupervisor 9,420 \@makefnmark 230,232,233 \box \box 17,23 \ctexbook (package) 14,15,15 \@makefntext 232,233 \box \box 647 \ctitle 9,422 \@noitemerr 721 \coverence \coverence 208,285,322 \@noitemerr 721 \coverence \coverence 20 \@noitemerr	\@dottedtocline . 387,388,697	\arrayrulewidth 493	\clearpage
Clubpenalty 716,717	Clubpenalty 716,717 Cunajor 10,426 Collect@Body 434,436 Courier (package) 16 Courier (package) 16 Courier (package) 16 Courier (package) 16 Courier (package) 17 Cutex (package	\@for 441	\AtEndOfClass 751,752	139, 142, 147, 152, 360,
\(\text{Qefbtop} \) 262	Wefptop 262 B \cmajor 10, 426 \@gobble 730 \backmatter 141 \Collect@Body 434, 436 \@height 226 \banxiaosi 165 \corollaryautorefname 133 \@highpenalty 391, 404 \belowdisplayshortskip 161 \corollaryautorefname 133 \@ightar 693 \belowdisplayskip 160 \coverdate 430 \@latex@warning 722 \bibname 703 \csupervisor 9, 420 \@mainmatterfalse 143 \bigstar 460 \ctex (package) 15 \@makefnmark 230, 232, 233 \book.cls (file) 17, 23 \ctexbook (package) 14, 15, 15 \@makefntext 232, 233 \box \ctexport \ctexport 208, 285, 322 \@noitemerr 721 \cmakefntext 232, 233 \ctexport	\@fpbot 264	\autoref <u>130</u>	519, 545, 575, 597, 618, 639
\(\text{\text{Ggobble}}\) 262 \(\text{\text{banxiaosi}}\) \(\text{\text{corollaryautorefname}}\) 434, 436 \(\text{\text{\text{\text{\text{\text{book}}}}}\) \(\text{\text{\text{bookdisplayshortskip}}}\) 161 \(\text{\text{corollaryautorefname}}\) 133 \(\text{\text{\text{\text{\text{\text{ocoverdate}}}}\) \(\text{\text{\text{bookdisplayship}}}\) 161 \(\text{\text{\text{coverdate}}\) \(\text{\text{\text{\text{\text{coverdate}}}}\) 430 \(\text{\te	\(\text{@gobble}\) \(\text{backmatter}\) \(\text{Lafor}\) \(\text{Callect@Body}\) \(\text{434}\) \(\text{dafor}\) \(\text{dafor}\) <th>\@fpsep 263</th> <th>_</th> <th>\clubpenalty 716,717</th>	\@fpsep 263	_	\clubpenalty 716,717
\(\rmathrm{O}	\@height 226 \banxiaosi \frac{165}{2} \corollaryautorefname 133 \@highpenalty 391, 404 \belowdisplayshortskip 161 \corollaryautorefname 133 \@ifstar 693 \belowdisplayskip 160 \coverdate 430 \@latex@warning 722 \bibname 703 \csupervisor 9, 420 \@mainmatterfalse 143 \bigstar 460 \ctex (package) 15 \@mainmattertrue 148, 153 \book.cls (file) 17, 23 \ctexbook (package) 14, 15, 15 \@makefnmark 230, 232, 233 \bot \bot \ctexset 208, 285, 322 \@makefntext 232, 233 \box 647 \ctexset 208, 285, 322 \@mkboth 315, 374, 375, 377 \breakurl (package) 17 \ctitle 9, 422 \@noitemerr 721 \c@enumiv 705, 714 \ctexturentOption 21, 22, 23, 31 \@noitemerr 721 \c@enumiv 705, 714 \cdot \cdot \@noitemerr 722 \cdot \cdot \cdot \@noitemerr <td>\@fptop 262</td> <td></td> <td>\cmajor 10, <u>426</u></td>	\@fptop 262		\cmajor 10, <u>426</u>
\@highpenalty 391,404 \belowdisplayshortskip 161 courier (package) 16 \@ifstar 693 \belowdisplayskip 160 \coverdate 430 \@latex@warning 722 \bibname 703 \csupervisor 9,420 \@mainmatterfalse 143 \bigstar 460 ctex (package) 15 \@mainmattertrue 148,153 \book.cls (file) 17,23 ctexbook (package) 14,15,15 \@makefnmark 230,232,233 \box 647 \ctexset 208,285,322 \@mkboth 315,374,375,377 \breakurl (package) 17 \ctitle 9,422 \@noitemerr 721 C \currentOption 21,22,23,31 \@noitemerr 721 \currentOption 21,22,23,31 \@noitemerr 721 \currentOption 21,22,23,31	\(\text{Mhighpenalty}\) 391, 404 \(\text{belowdisplayshortskip}\) 161 \(\text{courier}\) (\(\text{package}\) 16 \(\text{Mighpenalty}\) 391, 404 \(\text{belowdisplayshortskip}\) 160 \(\text{coverdate}\) 430 \(\text{Malexaming}\) 722 \(\text{bibname}\) 703 \(\text{csupervisor}\) 9, \(\frac{420}{20}\) \(\text{Mainmatterfalse}\) 143 \(\text{bigstar}\) 460 \(\text{ctext}\) (\(\text{package}\) 15 \(\text{Mainmattertrue}\) 148, 153 \(\text{book.cls}\) (\(\text{file}\) 17, 23 \(\text{ctextbook}\) (\(\text{package}\) 14, 15, 15 \(\text{Makefnmark}\) 230, 232, 233 \(\text{box}\) \(\text{ctexset}\) 208, 285, 322 \(\text{Momkboth}\) 315, 374, 375, 377 \(\text{brown}\) \(\text{ctitle}\) \(\text{ctitle}\) \(\text{ctitle}\) 9, \(\frac{422}{22}\) \(\text{Omoitemerr}\) 721 \(\text{CurrentOption}\) 21, 22, 23, 31 \(\text{Callenumiv}\) 705, 714 \(\text{D}\) \(\text{Callenumiv}\) \(\text{Callenumiv}\) \(\text{Callenumiv}\) \(\text{Locallength}\) \(\text{Locallength}\) \(\text{Locallength}\) \(\text{Locallength}\) \(Locall	\@gobble 730		\Collect@Body 434,436
\(\text{einfighpenarty}\) \(\text{belowdisplayskip}\) \(\text{coverdate}\) \(\text{coverdate}\) <td>\@ifstar 693 \belowdisplayskip 160 \coverdate 430 \@ifstar 693 \bibname 703 \coverdate 430 \@inattex@warning 722 \bibname 703 \csupervisor 9, 420 \@mainmatterfalse 143 \bigstar 460 ctex (package) 15 \@mainmattertrue 148, 153 \book.cls (file) 17, 23 ctexbook (package) 14, 15, 15 \@makefnmark 230, 232, 233 \box 647 \ctexset 208, 285, 322 \@makefntext 232, 233 \box 647 \ctextexthechapter 315 \@mkboth 315, 374, 375, 377 breakurl (package) 17 \ctitle 9, 422 \@noitemerr 721 C \currentOption 21, 22, 23, 31 \@noitemerr 705, 714 D \@starttoc 690 \data/(file) 4, 5</td> <td>\@height 226</td> <td></td> <td>\corollaryautorefname 133</td>	\@ifstar 693 \belowdisplayskip 160 \coverdate 430 \@ifstar 693 \bibname 703 \coverdate 430 \@inattex@warning 722 \bibname 703 \csupervisor 9, 420 \@mainmatterfalse 143 \bigstar 460 ctex (package) 15 \@mainmattertrue 148, 153 \book.cls (file) 17, 23 ctexbook (package) 14, 15, 15 \@makefnmark 230, 232, 233 \box 647 \ctexset 208, 285, 322 \@makefntext 232, 233 \box 647 \ctextexthechapter 315 \@mkboth 315, 374, 375, 377 breakurl (package) 17 \ctitle 9, 422 \@noitemerr 721 C \currentOption 21, 22, 23, 31 \@noitemerr 705, 714 D \@starttoc 690 \data/(file) 4, 5	\@height 226		\corollaryautorefname 133
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\(\text{Mainmatterfalse}\)	\(\text{Mainmatterfalse}\)	\@ifstar 693		\coverdate <u>430</u>
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