ustcthesis 使用说明

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1 简介

ustcthesis 是用于排版中国科学技术大学本科和研究生学位论文的 LATEX 模板,按照《中国科学技术大学研究生学位论文撰写手册》和《关于本科毕业论文(设计)格式和统一封面的通知》的要求编写。

其前身是中国科学技术大学本科论文模板(作者 XPS,最后维护 ywg)和中国科学技术大学研究生论文模板(作者 Liuqs,主要维护 Liuqs、Guolicai)。后来两模板进行了整合梳理,由 ywg 维护。2015 年,seisman 和 zepinglee 基于 ctex 2.0 重新编写了模板。2017 年,随着学校发布了新版的《撰写手册》,本模板也更新到 v3.0。

ustcthesis 的下载地址:

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• 主要地址: https://github.com/ustctug/ustcthesis/releases

• 学校镜像: https://git.ustclug.org/ustctug/ustcthesis/tags

• 研究生院网站: http://gradschool.ustc.edu.cn/ylb/xw.html

2 编译方法

2.1 文件组成

本模板的主要文件如表 1:

类别	文件	说明
模板文件	ustcthesis.dtx	模板原始代码文件,用户无需使用
	ustcthesis.cls	文档类文件
	ustcextra.sty	模板的附加宏包
	ustcauthoryear.bst	author-year 风格的参考文献格式
	ustcnumerical.bst	numerical 风格的参考文献格式
	figures/ustc_*.pdf	校名和校徽图片
生成文件	ustcthesis.pdf	(你正在阅读的) 模板使用说明
示例文档	main.tex	主文档
	chapters/∗.tex	示例文档的各个章节
	figures/	放置图片的目录
	bib/tex.bib	BibT _E X 示例数据库
其他	README.md	基本说明
	.latexmkrc	latexmk 的配置文件
	Makefile	GNU make 的配置文件

表 1: 模板的文件组成

示例文档包括了常用的 LATEX 命令,建议新手从此入手,用自己的内容进行替换。 文件 ustcthesis.dtx 是模板的原始代码文件,其可以自动生成文档类文件 ustcthesis.cls 和模板使用说明文件 ustcthesis.pdf。原始模板文件仅供模板开发者使用,一般用户无需使用。

2.2 依赖宏包

ustcthesis 直接依赖的宏包有: amssymb, caption, calc, ctex, etoolbox, fancyhdr, geometry, hyperref, natbib, pifont, titletoc, tikz, upgreek, xparse

注意 ctex 必须为 2.0 以上版本,所以要求 TeX Live、MacTeX、MikTeX 的版本不低于 2015 年的发行版。

2.3 开始编译

1. GNU make

Linux/Mac 用户,可以直接使用 GNU make 工具,这是最简单的方法。编译论文 main. pdf:

make

编译说明文档 ustcthesis.pdf:

make doc

另外还可以用 make clean 清理辅助文件。

2. latexmk

Windows 用户可能无法使用 GNU make,使用 latexmk 也是一个比较简单的方法,配置文件由 .latexmkrc 给出,其参数设置为 -xelatex,用户编译论文只需使用命令:

latexmk main

编译说明文档:

latexmk ustcthesis.dtx

清理辅助文件可以用 latexmk -c 。图形界面用户应参考编辑器的使用说明。

3. 手动编译

手动编译是最繁琐的方法,用户可能需要运行多遍,以确保论文的交叉引用等信息全 部正确。

编译论文 main.pdf:

xelatex main

bibtex main # BibTeX

xelatex main

xelatex main

编译说明文档 ustcthesis.pdf:

xelatex ustcthesis.dtx

makeindex -s gind.ist ustcthesis.idx

makeindex -s gglo.ist -o ustcthesis.gls ustcthesis.glo

xelatex ustcthesis.dtx

xelatex ustcthesis.dtx

3 论文参数设置

3.1 文档类参数

ustcthesis 提供了若干选项,应在论文开始时设置,如:

\documentclass[doctor,english,pdf]{ustcthesis}

全部的选项见表 2

必需参数	bachelor master doctor	本科论文 硕士论文 博士论文
可选参数	professional	专业学位
	chinese	中文,默认
	english	English
	print	用于双面打印纸质论文, 默认
	pdf	单面打印,并保留超链接颜色
	super	角标数字式参考文献引用标注,默认
	numbers	数字式参考文献引用标注
	authoryear	著者-出版年制参考文献

表 2: 文档类参数

除了本模板的定义的选项,用户还可以使用其他参数,比如 fontset=fandol, 这些参数都将传给 ctexbook。

3.2 中文字体

ustcthesis 只以 xeCJK 的方式提供中文支持,不支持 CJK 方式,所以用户必须使用 UTF-8 编码保存源文件,并且用 xelatex 命令进行编译。

默认情况下,本模板可以利用 ctex 宏包的功能自动检测用户的操作系统类型,并选择合适的中文字库。默认配置的策略如表 3:

操作系统	中文字库
macOS	华文字库
Windows Vista 及以后版本	中易字库+微软雅黑
Windows XP 及以前版本	中易字库
其他	Fandol 字库

表 3: 默认字体配置

用户也可以在调用文档类时加入选项 $fontset=\langle font \rangle$ 来显式地指定加载的字库,参见 ctex、fontspec 宏包。

3.3 英文字体

模板中使用了三种英文,包括衬线字体 Times New Roman、无衬线字体 Arial 和等宽字体 Courier New。Windows 和 Mac 下自带这三种英文字体,Linux 下则需要从其他地方复制字体到本机。

4 论文内容

本科论文的内容按如下顺序排列:

封面 中文封面、英文封面、原创性声明及授权使用说明

front matter 致谢、目录、中文摘要、英文摘要

main matter 正文章节、参考文献

appendix 附录

硕博论文的内容按如下顺序排列:

封面 中文封面、英文封面、原创性声明及授权使用说明

front matter 中文摘要、英文摘要、目录、图表及代码目录、符号说明

main matter 正文章节、参考文献

appendix 附录

back matter 致谢、已发表论文列表

示例文档 main.tex 中的致谢、目录等章节的顺序,是按照研究生论文的格式组织内容的,本科生需要手动调整顺序。

如果使用文档类选项 print (默认), "原创性声明"页则会加在封面后;若为 pdf,则没有声明页。

4.1 封面

"封面"的名字让人有些混淆,它既可以指由印刷厂统一制作的硬皮封面(cover),也可以指书打开后的第一页(title page)。在这里指的是后者,所以本模板从 title page 开始。

封面由 \maketitle 命令生成, 其中的各项信息使用 \ $\langle info \rangle$ } 的方式填写, 本模板提供的命令如表 4, 其中带 en 前缀的命令是设置英文封面的命令:

命令	命令 (英文)	说明
\title	\entitle	论文标题
\author	\enauthor	作者姓名
\major	\enmajor	学科专业
\supervisor	\ensupervisor	导师姓名
\cosupervisor	\encosupervisor	副导师姓名
\date	\endate	完成时间 (默认为今天)
\secrettext	\ensecrettext	密级信息(默认不保密)

表 4: 用来定义封面项目

4.2 摘要等环境

abstract 对于特殊的章节, ustcthesis 还提供了相应的环境, 如表 5。

enabstract notation acknowledgements publications

环境	说明
abstract	中文摘要
enabstract	英文摘要
notation	符号
acknowledgements	致谢
publications	发表成果

表 5: 特殊章节的环境

\keywords \enkeywords 其中,摘要的关键词应使用 \keywords 和 \enkeywords 命令,并包含在摘要环境中;

\keywords{

4.3 目录和图表

\begin{abstract}

\end{abstract}

\tableofcontents

生成目录、插图和表格的索引命令分别如表 6:

}

\listoffigures
\listoftables

L'sT_EX 的图表索引,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,那么应使用命令 \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"。

\note 本模板还提供了\note{ $\langle text \rangle$ }命令,用于在图表中添加注释。

命令	说明
\tableofcontents	目录
\listoffigures	图目录
\listoftables	表目录
\listofalgorithms	算法目录

表 6: 各种目录的环境

符号	命令
常数e	\eu
复数单位 i	\iu
微分符号d	\diff
arg max	\argmax
arg min	\argmin

表 7: 模板定义的数学符号

4.4 数学

模板中定义了一些使用正体的数学符号(表7)。

ustcextra.sty 定义了数学定理格式 ustcplain(默认使用)以及一些常用的环境,如表 8。

theorem	assertion	axiom	corollary	lemma
定理	断言	公理	推论	引理
proposition	definition	example	remark	proof
命题	定义	例	注	证明

表 8: 数学定理相关的环境

注意 proof 环境与其它不同的是,其第二个参数会完全取代"证明"标题,并且会在末尾加一个 \qed。

\newtheorem

用户可以使用 \newtheorem 命令来分别定义新的数学环境,比如定义并使用"传说"环境:

```
\newtheorem{legend}{     }
\begin{legend}
```

\newtheoremstyle

用户还可以用 \newtheoremstyle 定义环境的格式,具体参见 amsthm 宏包。

4.5 参考文献

参考文献和引用标注支持的风格见表 9, 默认为角标数字式,

参考文献列表	引用标注	参数
顺序编码制	角标数字	super
	数字	numbers
著者-出版年制	著者-出版年	authoryear

表 9: 参考文献列表和引用标注风格

如果要使用其他风格,可以在载入文档类时加入相应的参数:

```
\documentclass[doctor,authoryear]{ustcthesis}
```

在使用著者-出版年制时,需要将中文参考文献按照拼音或者笔画排序,然而 Unicode 中的汉字是根据康熙字典排序的,而且由于 BibT_EX 功能的局限性,我们无法根据著者姓名读取拼音,所以只能手动处理:在 bib 数据库中设置对应条目的 key 域为著者姓名拼音,如:

```
@book{capital,
  author = {      and      },
  key = {ma3 ke4 si1 en1 ge2 si1},
  ...
```

BibT_EX 默认情况下可以自动识别文献语言,并自动处理文献类型和载体类型标识,但是在少数情况下需要用户手动指定,如:

```
@article{citekey,
  language = {japanese},
  mark = {M},
  medium = {CD},
  ...
```

可选的语言有 english, chinese, japanese, russian, 目前对日语和俄语的支持较为有限。

在使用 BibT_EX 时,默认会将标题域的第一个字母大写,其余小写。对于一些需要强制大写的专有名词(如人名"Riemann"),可以在 bib 数据库中将其用大括号括起来,比如:

```
@book{forster,
...
title = {Lectures on {Riemann} surfaces},
...
```

A 代码实现

A.1 声明选项

```
1 (*class)
2\newif\if@ustc@doctor
3 \newif\if@ustc@master
4 \newif\if@ustc@bachelor
5\newif\if@ustc@professional
6 \newif\if@ustc@english
7\newif\if@ustc@numerical
8\newif\if@ustc@super
9\newif\if@ustc@pdf
{\tt 10 \setminus DeclareOption \{ doctor \} \{ \setminus @ustc@doctortrue \setminus @ustc@masterfalse \setminus @ustc@bachelorfalse \} } \\
11 \DeclareOption{master}{\@ustc@doctorfalse\@ustc@mastertrue\@ustc@bachelorfalse}
12 \DeclareOption{bachelor}{\@ustc@doctorfalse\@ustc@masterfalse\@ustc@bachelortrue}
13 \DeclareOption{professional}{\@ustc@professionaltrue}
14 \DeclareOption{chinese}{\@ustc@englishfalse}
15 \DeclareOption{english}{\@ustc@englishtrue}
16 \DeclareOption{print}{\@ustc@pdffalse}
17 \DeclareOption{pdf}{\@ustc@pdftrue}
18 \DeclareOption{super}{\@ustc@numericaltrue\@ustc@supertrue}
19 \DeclareOption{numbers}{\@ustc@numericaltrue\@ustc@superfalse}
20 \DeclareOption{authoryear}{\@ustc@numericalfalse}
21 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{ctexbook}}
22 \ExecuteOptions{doctor, chinese, print, super}
23 \ProcessOptions\relax
24 \newif\if@ustc@addtocspace
25 \if@ustc@bachelor
26
      \@ustc@addtocspacetrue
27\fi
28 \if@ustc@english
29 \PassOptionsToClass{scheme=plain}{ctexbook}
30∖fi
31 \if@ustc@pdf
32 \PassOptionsToClass{oneside}{book}
```

默认情况下 fontspec 会将 \mathrm 的字体更改为 Times New Roman,而 \mathnormal 依然为 Computer Modern,比 Times New Roman 要细,所以设置 fontspec 不处理数学字体 34\PassOptionsToPackage{no-math}{fontspec}

```
载入 ctexbook 文档类,注意要求 ctex 为 2.0 以及更高的版本。 35 \LoadClass[UTF8, a4paper, openany, zihao=-4]{ctexbook}[2015/05/14] 36 \RequirePackage{etoolbox}
```

```
检测 ctexbook 版本,如果版本过低会报错
37 \@ifclasslater{ctexbook}{2015/05/14}{}{%
      \ClassError{ustcthesis}{%
38
39
          Requiring ctex 2.0 or later version!\MessageBreak
          Please update the package using your\MessageBreak
40
          TeX package manager or from CTAN
41
      }{%
42
43
          See ustcthesis.pdf for more detailed update guide.
44
      }
45 }
      设置西文字体
A.2
    设置西文字体,中文字体已经由 ctex 自动设置,
46\setmainfont{Times New Roman}
47\setsansfont{Arial}
48 \setmonofont{Courier New}
A.3
      超链接与书签
49 \RequirePackage{hyperref}
50 \hypersetup{
      bookmarksopen=true,
      bookmarksnumbered=true,
52
      bookmarksopenlevel=1,
      CJKbookmarks=true,
54
55
      pdfborder=0 0 0,
      unicode=true,
56
      linktoc=all,
58 }
如果为 pdf 样式,设置 hyperlink 颜色
59 \if@ustc@pdf
      \hypersetup{
60
          colorlinks=true,
61
          allcolors=blue,
62
      }
63
64\fi
设置 pdf 的信息
65 \AtBeginDocument{
      \hypersetup{
66
          pdftitle={\ustc@title},
67
          pdfauthor={\ustc@author}
68
      }
69
```

70 }

A.4 定义命令

```
\setfontsize 直接设置字体大小的命令,可选设置行距,默认单倍行距。注意:该命令的定义中的空格会
                                             影响最终效果,因而需要在一行内写完命令,见 Issue 42
                                              71 \RequirePackage{xparse}
                                              \label{thm:commandset} $$72 \end{Townstream} {\end{Townstream} {\end{Townstream}} {\end{Townstream} } $$12 \end{Townstream} $$12 \
                     \zhspace 生成整数倍汉字宽度的空格,默认为1
                                              73 \newcommand\zhspace[1][1]{\hspace{#1\ccwd}}
    \ustc@underline 生成空的下划线
                                              74 \newcommand\ustc@underline[2][6em]{%
                                                            76 }
\ustc@define@term 声明"作者姓名"等项目的命令
                                              77 \def\ustc@define@term#1{
                                                            \expandafter\gdef\csname #1\endcsname##1{
                                                                      \expandafter\gdef\csname ustc@#1\endcsname{##1}
                                              79
                                              80
                                              81
                                                            \csname #1\endcsname{}
                                              82 }
                                              83 \ustc@define@term{professionaltype}
                                              84 \ustc@define@term{title}
                                              85 \ustc@define@term{secrettext}
                                              86 \ustc@define@term{author}
                                              87 \ustc@define@term{major}
                                               88 \ustc@define@term{supervisor}
                                              89 \ustc@define@term{cosupervisor}
                                              90 \ustc@define@term{date}
                                              91 \ustc@define@term{enprofessionaltype}
                                              92\ustc@define@term{entitle}
                                              93 \ustc@define@term{ensecrettext}
                                              94\ustc@define@term{enauthor}
                                              95\ustc@define@term{enmajor}
                                              96\ustc@define@term{ensupervisor}
                                              97 \ustc@define@term{encosupervisor}
                                              98 \ustc@define@term{endate}
                                              99 \date{\zhnumsetup{time=Chinese}\zhtoday}
                                             100 \endate{\CTEX@todayold}
```

A.5 设置语言

这里设置了中英文的各种名字。

```
101 \if@ustc@english
    \renewcommand\figurename{Fig.}
    \newcommand\ustc@notesname{\textbf{Notes}: }
103
    \newcommand\ustc@acknowledgementsname{Acknowledgements}
104
    \newcommand\ustc@publicationsname{Publications}
105
    \newcommand\ustc@notationname{Notation}
106
107 \else
    \renewcommand\listfigurename{
108
    \renewcommand\listtablename{
109
    \newcommand\ustc@notesname{\textbf{ } }
110
    \newcommand\ustc@acknowledgementsname{
111
    \newcommand\ustc@publicationsname{
                                                                           }
112
    \newcommand\ustc@notationname{
113
    \def\equationautorefname~#1\null{
                                         ~(#1)\null}%
114
    \def\footnoteautorefname{
115
    \def\itemautorefname~#1\null{
                                  ~#1~
                                          \null}%
116
117
    \def\figureautorefname{ }%
    \def\tableautorefname{ }%
118
    \def\partautorefname~#1\null{ ~#1~
                                            \null}%
119
    \def\appendixautorefname{
120
    \def\chapterautorefname~#1\null{
                                      ~#1~
                                             \null}%
121
    \def\sectionautorefname~#1\null{
                                      ~#1~
                                             \null}%
122
    \def\subsectionautorefname~#1\null{
                                         ~#1~
                                                  \null}%
123
    \def\subsubsectionautorefname~#1\null{
                                                       \null}%
124
    125
    \def\subparagraphautorefname~#1\null{
                                           ~#1~
                                                    \null}%
126
    \def\theoremautorefname{
127
    \def\pageautorefname~#1\null{ ~#1~
                                          \null}%
128
129\fi
```

A.6 页面设置

首先用 geometry 宏包设置纸张和页面。

```
130 \RequirePackage{geometry}
131 \geometry{
132
      paper=a4paper,
      top=2.54cm, bottom=2.54cm,
133
      left=3.17cm, right=3.17cm,
134
      headheight=0.75cm, headsep=0.29cm,
135
      footskip=0.79cm}
136
    再用 fancyhdr 宏包设置页眉页码。
137 \RequirePackage{fancyhdr}
138 \renewcommand{\headrulewidth}{0.4pt}
139 \if@ustc@bachelor
```

```
\fancypagestyle{ustc@headings}{%
140
                \fancyhf{}%
141
                \fancyhead[C]{\setfontsize{9\bp@}
                                                                                                                                                                            }%
142
                \fancyfoot[C]{\setfontsize{9\bp@}\thepage}}%
143
144 \else
          \fancypagestyle{ustc@headings}{%
145
               \fancyhf{}%
146
                \fancyhead[C]{\setfontsize{10.5\bp@}\leftmark}%
147
                \fancyfoot[C]{\setfontsize{10.5\bp@}\thepage}}%
148
149\fi
150 \fancypagestyle{ustc@notation}{\fancyfoot{}}
151 \pagestyle{ustc@headings}
152\patchcmd\chaptermark{#1}{\protect\spacetitle{#1}}{}{}
            空白页不加页眉。
将 frontmatter 的页码改为大写的罗马数字,并调整页面风格。
155 \g@addto@macro\frontmatter{%
          \if@ustc@bachelor
                \pagenumbering{gobble}%
158
          \else
159
                \pagenumbering{Roman}%
160
          \fi}
161 \renewcommand\mainmatter{%
          \if@ustc@bachelor
                \clearpage
163
164
          \else
                \cleardoublepage
166
                \pagenumbering{arabic}%
167
168
           \@mainmattertrue
169 }
170 \renewcommand \chapter{%}
                \if@openright\cleardoublepage\else\clearpage\fi
171
172
                \global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath}\global\ensuremath{\global\ensuremath{\global\ensuremath}\global\ensuremath{\global\ensuremath{\global\ensuremath{\global\ensuremath}\global\ensuremath}\global\ensuremath{\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath{\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ensuremath}\global\ens
173
                \@afterindenttrue
174
                \if@ustc@bachelor
175
                     \if@mainmatter
                          \ctexset{chapter/format = \centering\sffamily\setfontsize{16\bp@}}
176
177
                          \ctexset{chapter/format = \centering\sffamily\setfontsize{18\bp@}}
178
179
                     \if@ustc@addtocspace
```

A.7 章节标题

用 ctex 的接口设置全局的章节标题格式,注意由于 ctex 2.1 以下版本的 bug, chapter 的 nameformat 和 titleformat 的这两行必须置空。

ctex 2.4.3 以下版本的 bug 会导致章节标题前后的距离的实际值偏大,临时的解决方案是手动调整,偏移值为 beforeskip=-31bp, afterskip=-10bp。但是 ctex 2.2 前的 beforeskip 的符号有特殊意义,所以临时解决方案只用于 ctex 2.2 以及以上版本。

首先设置带圈的数字:

```
186 \RequirePackage{pifont}
187 \def\ustc@textcircled#1{%
188 \ifnum\value{#1} >9
189 \ClassError{ustcthesis}%
190 {Too many footnotes in this page.}{Keep footnote less than 10.}
191 \fi
192 \ding{\the\numexpr\value{#1}+191\relax}}
```

研究生规定章题为两字时中间空两字,三字时空一字,四字时空半字,四字以上不空。 另外,stringstrings 宏包会导致范数命令 \| 被修改,所以用 xstring。

```
193 \RequirePackage{xstring}
194 \newcommand\spacetitle[1]{%
   \StrLen{#1}[\titlelength]%
   \if@ustc@bachelor
197
     \if@mainmatter\relax\else
      \  \in \ \
198
        199
        \fi
200
      \fi
     \fi
202
   \else
203
     \  \in \  \
204
      \  \in \ \
205
        \ifnum\titlelength=4\ziju{0.5}%
206
        \fi
208
      \fi
     \fi
   \fi#1}
```

另外摘要、参考文献等章节在底层也是用 \chapter 实现的。这一部分以后可能重新实现 \chapter。

```
211 \setcounter{secnumdepth}{5}
212 \ctexset{
       chapter = {
213
           format
                        = \centering\sffamily\bfseries\setfontsize{16\bp@},
214
           nameformat = {},
215
           titleformat = \spacetitle,
216
           number
                        = \thechapter,
217
           aftername = \hspace{\ccwd},
218
           beforeskip = -7 \neq 0, % 24bp - 31bp
219
220
           afterskip
                       = 8\bp@, % 18bp - 10bp
           % fixskip = true, % will be used in future version
221
       },
222
       section = {
223
224
           format
                       = \sffamily\setfontsize{14\bp@},
           aftername = \hspace{\ccwd},
225
           beforeskip = 24 \times 0,
226
           afterskip = 6\bp@,
227
228
       },
       subsection = {
229
           format
                       = \sffamily\setfontsize{13\bp@},
230
           aftername = .\hspace{\ccwd},
231
232
           indent
                       = 2 \ ccwd
           beforeskip = 12\bp@,
233
           afterskip = 6 \neq 0,
234
235
236
       subsubsection = {
           format
                       = \sffamily\setfontsize{12\bp@},
237
           number
                       = \arabic{subsubsection},
238
           aftername = .\hspace{\ccwd},
239
                       = 3 \ ccwd,
240
           indent
           beforeskip = 12 \neq 0,
241
           afterskip = 6 \neq 0,
242
243
244
       paragraph = {
                       = \sffamily\setfontsize{12\bp@},
245
           format
           number
                       = (\arabic{paragraph}),
246
           aftername = \hspace{\ccwd},
248
           indent
                       = 3 \ ccwd,
           beforeskip = \z@,
249
           afterskip = \z@,
250
           runin
                       = false,
251
252
       },
```

```
subparagraph = {
253
           format
                       = \sffamily\setfontsize{12\bp@},
254
           number
                       = \ustc@textcircled{subparagraph},
255
           aftername = \hspace{\ccwd},
256
           indent
                       = 3 \ ccwd
257
           beforeskip = \z@,
258
           afterskip = \z@,
259
260
           runin
                       = false,
       },
261
262 }
     设置本科生的章节标题。
263 \if@ustc@bachelor
       \setcounter{secnumdepth}{4}
265
       \ctexset{
266
           chapter={
               format = \centering\sffamily\setfontsize{16\bp@},
267
               number = \chinese{chapter},
268
           },
270
           section = {
               format = \centering\sffamily\setfontsize{15\bp@},
271
               name = \{ , \},
272
               number = \chinese{section},
274
           },
           subsection = {
                          = \sffamily\setfontsize{14\bp@},
276
               format
                          = \chinese{subsection},
               number
278
               aftername = { },
           subsubsection = {
280
               format
                          = {\rmfamily\setfontsize{12\bp@}},
281
               number
                          = \arabic{subsubsection},
               aftername = \{. \setminus \},
284
               indent
                          = \ccwd,
285
           },
           paragraph = {
286
                          = {\rmfamily\setfontsize{12\bp@}},
               format
                          = \{(,)\},\
288
               name
                          = \arabic{paragraph},
               number
               aftername = \{ \setminus \},
290
                          = 2 \ ccwd,
               indent
292
           },
           subparagraph = {
                          = {},
               format
                          = {},
               name
```

```
indent
296
                      = 2 \ ccwd
         },
298
299\fi
300 \newcounter{ustc@pdfbookmark}
301 \NewDocumentCommand\ustc@chapter{o m}{%
    \if@openright\cleardoublepage\else\clearpage\fi%
    \addtocounter{ustc@pdfbookmark}\@ne
    \IfValueTF{#1}{%
304
305
      \verb|\pdfbookmark[0]{#1}{ustcchapter.\theustc@pdfbookmark}%|
306
307
308
      309
      \chaptermark{#2}%
310
    \chapter*{#2}}
```

A.8 封面

\maketitle 重新定义 \maketitle, 调用 \make@cntitle, \make@entitle 分别生成中、英文封面。若论文选项 print 有效,声明页则会加在封面后,若为 pdf,则没有声明页。

```
312 \renewcommand\maketitle{%
      \newgeometry{
313
           top=3.8cm, bottom=3.8cm,
314
           left=3.2cm, right=3.2cm,
315
           headheight=0cm, headsep=0.8cm,
316
           footskip=0.8cm}
317
      \pagenumbering{gobble}
318
      \pdfbookmark[0]{
                           }{titlepage}
319
      \make@cntitle \cleardoublepage
320
      \pdfbookmark[0]{Title page}{entitlepage}
321
      \make@entitle \cleardoublepage
322
323
      \restoregeometry
      \if@ustc@bachelor\relax\else
324
           \if@ustc@pdf\relax\else%
325
               \pdfbookmark[0]{
                                          }{statement}
326
               \make@statement \cleardoublepage
327
           \fi
328
      \fi
329
330 }
    定义一些常量。
331 \if@ustc@doctor
332 \if@ustc@professional
```

```
\newcommand\ustc@thesisname{
                                                       }%
          335
          336
              \newcommand\ustc@enthesisname{A dissertation for doctor's degree}%
          337
          338 \else
              \if@ustc@master
          339
                \if@ustc@professional
          340
                  \newcommand\ustc@thesisname{
                                                             }
          341
                \else
          342
                  \newcommand\ustc@thesisname{
                                                         }
          343
          344
                \newcommand\ustc@enthesisname{A dissertation for master's degree}
          345
              \else
          346
                \newcommand\ustc@thesisname{
          347
                \newcommand\ustc@enthesisname{A dissertation for bachelor's degree}
          348
          349 \fi
          350\fi
          351 \newcommand\ustc@supervisorline{%
              \ifx\ustc@encosupervisor\@empty%
          352
                Supervisor: \ustc@ensupervisor%
          353
              \else%
          354
                Supervisors: \ustc@ensupervisor, \ustc@encosupervisor%
          355
          356
\vpostext 这里使用 tikz 工具设计封面。\vpostext{\vpos\}{\text\} 命令用来放置居中的文字,有两个
          参数,第一个为距离纸的顶端的距离,第二个为要放置的文字
          357 \RequirePackage{tikz}
          358 \newcommand\vpostext[2]{%
                \tikz[remember picture,overlay]%
          359
          360
                    \node [yshift=-#1] at (current page.north) [below,align=flush center]%
                        {\parbox{\textwidth}{\centering#2}};}
          361
               现在开始设计封面。如果"学科专业"一栏放不下,可以将文字装进一个 \parbox, 比如
          \parbox[t]{5cm}{A VERY LONG TEXT}
          362 \newcommand\make@cntitle{%
                \begin{titlepage}%
          363
                    \tikz[remember picture,overlay]%
          364
                        \node [yshift=-4cm] at (current page.north) [below,align=flush center]%
          365
                            {\parbox{\textwidth}{\raggedleft\fangsong\setfontsize{14\bp@}\ustc@secrettext}};%
          366
                    \vpostext{4cm}{\includegraphics[height=37\bp@]{figures/ustc_logo_text}}%
          367
                    \if@ustc@professional
          368
                      \vpostext{6.3cm}{\sffamily\setfontsize{56\bp@}\ziju{-0.09}\ustc@thesisname}%
          369
                      \vpostext{9cm}{\setfontsize{26\bp@}\ustc@professionaltype}%
          370
```

}%

333

334

\else

\newcommand\ustc@thesisname{

```
\vpostext{16.3cm}{\sffamily\bfseries\setfontsize{26\bp@}\ustc@title}%
             372
                      \else
             373
                        \vpostext{6.3cm}{\sffamily\setfontsize{56\bp@}\ustc@thesisname}%
             374
                        \vpostext{9.8cm}{\includegraphics[height=4.7cm]{figures/ustc logo fig}}%
             375
                        \vpostext{16.3cm}{\sffamily\bfseries\setfontsize{26\bp@}\ustc@title}%
             376
                      ۱fi
             377
                      \tikz[remember picture,overlay]%
             378
                         \node [xshift=4.6cm,yshift=-20.3cm] at (current page.north west)%
             379
                          [below right,align=left] {%
             380
                             \setfontsize{16\bp@}%
             381
                             \begin{tabular}{@{}l@{\hspace{\ccwd}}l@{}}%
             382
             383
                                \textsf{
                                                } & \ustc@author \\%
                                \textsf{
                                                } & \ustc@major \\%
             384
                                \textsf{
                                                } & \ustc@supervisor\quad\ustc@cosupervisor \\%
             385
                                \textsf{
                                                } & \ustc@date%
             386
             387
                             \end{tabular}};%
             388
                  \end{titlepage}}
            由于《规范》对宽度的限制,可能一行里放不下,需要使用\parbox
\make@entitle
             389 \newcommand\make@entitle{%
                  \begin{titlepage}%
             390
             391
                      \tikz[remember picture,overlay]%
                         \node [yshift=-4cm] at (current page.north) [below,align=flush center]%
             392
                             393
                      394
                         University of Science and Technology of China}%
             395
                      396
                      \if@ustc@professional
             397
                        \vpostext{6.2cm}{\setfontsize{16\bp@}\ustc@enprofessionaltype}%
             398
                        \vpostext{8.9cm}{\includegraphics[height=5.1cm]{figures/ustc_logo_fig}}%
             399
                        400
                      \else
             401
                        \vpostext{7.9cm}{\includegraphics[height=5.1cm]{figures/ustc_logo_fig}}%
             402
                        \vpostext{14.2cm}{\sffamily\bfseries\setfontsize{26\bp@}[30\bp@]\ustc@entitle}%
             403
                      ۱fi
             404
                      \tikz[remember picture,overlay]%
             405
                         \node [xshift=4.4cm,yshift=-20.2cm] at (current page.north west)%
             406
             407
                          [below right,align=left] {%
                             \setfontsize{16\bp@}[30\bp@]%
             408
                             \begin{tabular}{@{}l@{}}%
             409
                                Author:
             410
                                             \ustc@enauthor \\%
             411
                                Speciality:
                                             \ustc@enmajor \\%
                                \ustc@supervisorline \\%
             412
                                Finished time: \ustc@endate%
             413
```

\vpostext{10.3cm}{\includegraphics[height=4.7cm]{figures/ustc_logo_fig}}%

371

```
414 \end{tabular}};%
415 \end{titlepage}}
```

A.9 原创性声明

定义原创性声明

```
416 \newcommand{\ustc@declaretext} {
417
418
419
420 }
421 \newcommand{\ustc@authorization}{
422
423
424
425
426
427
428
429
430 }
431 \newcommand\make@statement{}
       \thispagestyle{empty}
432
       \setfontsize{12\bp@}[20\bp@]
433
434
       \vspace*{-0.15cm}
       \begin{center}
435
         \verb|\setfontsize{16\bp@}\textbf{|}
                                                                                 }
436
       \ensuremath{\mbox{\sc center}}
437
       \vskip 0.3cm
438
439
       \ustc@declaretext\par
440
441
442
       \vskip 0.7cm
443
       \begin{tabular}{p{7cm}p{7cm}}
                     \ustc@underline[7.4em]{} &
                                                                \ustc@underline[7.4em]{}
444
       \end{tabular}
445
446
       \vskip 2.6cm
447
       \begin{center}
448
          \strut_{16\p@}\text{textbf}{}
                                                                                    }
449
450
       \ensuremath{\mbox{\sc center}}
       \vskip 0.3cm
451
452
453
       \ustc@authorization\par
```

```
\vskip 0.5cm
           454
                  $\square$
                                 \hspace{0.4cm} $\square$
                                                                \ustc@underline[2em]{}
            455
           456
            457
                  \vskip 0.5cm
            458
                  {\renewcommand{\arraystretch}{2.0}
            459
                  \begin{tabular}{p{7cm}p{7cm}}
            460
                              \ustc@underline[7.4em]{} &
                                                                   \ustc@underline[7.4em]{} \\
            461
                              \ustc@underline[7.4em]{} &
                                                                   \ustc@underline[7.4em]{} \\
            462
                  \end{tabular}}
            463
            464 }
            A.10 摘要
 abstract 中文摘要环境
            465 \newenvironment{abstract}{%
                  \if@ustc@bachelor
                      \chapter{
                                           }%
            467
                  \else
            468
            469
                      \ustc@chapter{
                                        }%
            470
                  \fi
               }{}
           471
enabstract 英文摘要环境
           472 \newenvironment{enabstract}{%
                  \if@ustc@bachelor
           473
                                           ]{Abstract}
            474
                      \chapter[
           475
                  \else
                      \ustc@chapter[Abstract]{ABSTRACT}
            476
                  fi}{}
           477
 keywords 中文关键词
           478 \newcommand \keywords [1] {\%}
           479 \par\phantom{empty line}\par\noindent\hangindent=4\ccwd\relax%
           480 \textbf{
                              } #1}
enkeywords 英文关键词
           481 \newcommand\enkeywords [1] \{%
            482 \par\phantom{empty}\par\noindent\hangindent=5.3em\relax%
```

A.11 目录

483 \textbf{Key Words}: #1}

\tableofcontents 为了在 PDF 书签中加入目录, 重新定义 \tableofcontents

```
484 \renewcommand\tableofcontents{%

485     \cleardoublepage%

486     \if@ustc@bachelor\pagenumbering{arabic}\fi

487     \ustc@chapter{\contentsname}%

488     \@starttoc{toc}}
```

目录一般由正文第 1 章(或绪论、引言)开始,列至三级标题(如 2.2.2)即可,目录之前的内容及目录本身不列入目录内。一级标题顶格书写,二级标题缩进一字,三级标题缩进两字。由于 ctex 新引入了 tocline,导致 chatper 的前标题空白多了 0.3em。下面用 titletoc 宏包设置每级目录的格式

```
489 \RequirePackage{titletoc}
490 \verb|\newcommand\ustc@leaders{\titlerule*[0.5pc]{$\cdot$}}|
491 \if@ustc@bachelor
      \titlecontents{chapter}
493
          [\z@]
494
          {\text{setfontsize}\{12\bp@\}[20\bp@]}
          {\contentspush{\thecontentslabel\hskip\ccwd\relax}}
495
496
          {}{\ustc@leaders\contentspage}
497
      \titlecontents{section}
498
          [\ccwd]
          {\text{setfontsize}\{12\bp@\}[20\bp@]}
499
500
          {\contentspush{\thecontentslabel\hskip\ccwd\relax}}
          {}{\ustc@leaders\contentspage}
501
502
      \titlecontents{subsection}
          [2\ccwd]
503
504
          {\text{setfontsize}\{12\bp@\}[20\bp@]}
          {\contentspush{\thecontentslabel }}
505
506
          {}{\ustc@leaders\contentspage}
507 \else
      \titlecontents{chapter}
508
509
          [\z@]
510
          {\addvspace{6\bp@}\setfontsize{14\bp@}[20\bp@]}
511
          {\contentspush{\thecontentslabel\unskip\hskip\ccwd\relax}}
512
          {}{\ustc@leaders\setfontsize{12\bp@}[20\bp@]\contentspage}
      \titlecontents{section}
513
          [\ccwd]
514
          {\text{setfontsize}\{12\bp@\}[20\bp@]}
515
          {\contentspush{\thecontentslabel\hskip\ccwd\relax}}
516
          517
518
      \titlecontents{subsection}
          [2\ccwd]
519
          {\text{0.5}p@}[20\p@]}
520
          {\contentspush{\thecontentslabel\hskip\ccwd\relax}}
```

523\fi

同时设置图、表的目录格式

524 \titlecontents{figure}

- 525 [\ccwd]
- 526 {\addvspace{6\bp@}\setfontsize{12\bp@}}
- 527 {\thecontentslabel\hspace*{0.5em}}
- 528 {}{\ustc@leaders\contentspage}
- 529 \titlecontents{table}
- 530 [\ccwd]
- 531 {\addvspace{6\bp@}\setfontsize{12\bp@}}
- 532 {\thecontentslabel\hspace*{0.5em}}
- 533 {}{\ustc@leaders\contentspage}

\listoffigures 为了让图目录另页起,重新定义 \listoffigures

- 534 \renewcommand\listoffigures{%
- \if@ustc@bachelor\clearpage\else\cleardoublepage\fi
- 536 \ustc@chapter{\listfigurename}%
- 537 \@starttoc{lof}}

\listoftables 表目录同样

- 538 \renewcommand\listoftables{%
- 539 \if@ustc@bachelor\clearpage\else\cleardoublepage\fi
- 540 \ustc@chapter{\listtablename}%
- 541 \@starttoc{lot}}

为了让本科生的目录每章之间多空一行,重新定义\mainmatter,\backmatter,\appendix

542 \if@ustc@bachelor

- 543 \g@addto@macro\frontmatter{\@ustc@addtocspacefalse}%
- 544 \g@addto@macro\mainmatter{\@ustc@addtocspacetrue}%
- 545 \g@addto@macro\backmatter{\@ustc@addtocspacefalse}%
- 546 \g@addto@macro\appendix{\@ustc@addtocspacefalse}%
- 547∖fi

A.12 符号说明

notation 标题字体字号等同论文正文,说明部分: 宋体 10.5 磅,行距 16 磅,段前段后 0 磅。

$548 \verb| newenvironment{notation}{ \{} \%$

- 549 \if@ustc@bachelor\clearpage\else\cleardoublepage\fi
- 550 \thispagestyle{ustc@notation}
- 551 \ctexset{chapter/format = \centering\rmfamily\setfontsize{12\bp@}}
- 552 \ustc@chapter{\ustc@notationname}
- 553 \setfontsize{10.5\bp@}[16\bp@]
- 554 \setlength{\itemsep}{\z@}}{}

A.13 正文

例

正文字号 12bp, 研究生行距 20bp, 本科生行距 22bp; 其他命令的行距设置为对应的比

```
555 \newdimen\bp@ \bp@=1bp
556 \if@ustc@bachelor
               \renewcommand\normalsize{%
557
                          \ensuremath{\tt @setfontsize normalsize{12\bp@}{22\bp@}}
558
                          \abovedisplayskip 12\bp@ \@plus3\bp@ \@minus7\bp@
559
                          \abovedisplayshortskip \z@ \@plus3\bp@
560
                          \belowdisplayshortskip 6.5\bp@ \@plus3.5\bp@ \@minus3\bp@
561
                          \belowdisplayskip \abovedisplayskip
562
                          \let\@listi\@listI}
563
               \normalsize
564
               \renewcommand\small{%
565
                          \ensuremath{\texttt{0.5}\bp@}{19.25\bp@}%
566
                          \abovedisplayskip 10.5\bp@ \@plus3\bp@ \@minus6\bp@
567
                          \abovedisplayshortskip \z@ \@plus3\bp@
568
                          \belowdisplayshortskip 6.5\bp@ \@plus3.5\bp@ \@minus3\bp@
569
                          \def\@listi{\leftmargin\leftmargini
570
                                                                    \topsep 9\bp@ \@plus3\bp@ \@minus5\bp@
571
                                                                    \parsep 4.5\bp@ \@plus2\bp@ \@minus\bp@
572
                                                                   \itemsep \parsep}%
573
                          \belowdisplayskip \abovedisplayskip
574
               }
575
               \renewcommand\footnotesize{%
576
                          \ensuremath{\tt @setfontsize\footnotesize{9\bp@}{16.5\bp@}}
577
                          578
                          \abovedisplayshortskip \z@ \@plus3\bp@
579
                          580
                          \def\@listi{\leftmargin\leftmargini
581
                                                                   \topsep 6\top@ \end{plus2\top} \end{plus2\top} \end{plus2\top} \end{plus2\top}
582
                                                                    \parsep 3\bp@ \@plus2\bp@ \@minus\bp@
583
                                                                   \itemsep \parsep}%
584
                          \belowdisplayskip \abovedisplayskip
585
               }
586
                \renewcommand\scriptsize{\@setfontsize\scriptsize{7.5\bp@}{13.75\bp@}}
587
               588
                \label{large} $$\operatorname{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\large}{\command\l
589
                \renewcommand\Large{\@setfontsize\Large{18\bp@}{33\bp@}}
590
                \renewcommand\LARGE{\@setfontsize\LARGE{22\bp@}{40.33\bp@}}
591
               \ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ens
               \label{local-prop} $$\operatorname{\def}(0) = \frac{26 \cdot bp@}{47.67 \cdot bp@}$
593
594 \else
```

```
595
          \renewcommand\normalsize{%
                 \ensuremath{\texttt{@setfontsize}}normalsize{12\bp@}{20\bp@}%
596
                 \abovedisplayskip 12\bp@ \@plus3\bp@ \@minus7\bp@
597
                 \abovedisplayshortskip \z@ \@plus3\bp@
598
                 \belowdisplayshortskip 6.5\bp@ \@plus3.5\bp@ \@minus3\bp@
599
                 \belowdisplayskip \abovedisplayskip
600
                 \let\@listi\@listI}
601
          \normalsize
602
          \renewcommand\small{%
603
                 \ensuremath{\texttt{0.5}\bp@}{17.5\bp@}%
604
                 \abovedisplayskip 10.5\bp@ \@plus3\bp@ \@minus6\bp@
605
                 \abovedisplayshortskip \z@ \@plus3\bp@
606
                 \belowdisplayshortskip 6.5\bp@ \@plus3.5\bp@ \@minus3\bp@
607
                 \def\@listi{\leftmargin\leftmargini
608
                                            \topsep 9\top@ \eqnus3\top@ \eqnus5\top@
609
                                            \parsep 4.5\bp@ \@plus2\bp@ \@minus\bp@
610
611
                                            \itemsep \parsep}%
                 \belowdisplayskip \abovedisplayskip
612
         }
613
          \renewcommand\footnotesize{%
614
                 \@setfontsize\footnotesize{9\bp@}{15\bp@}
615
                 616
                 \abovedisplayshortskip \z@ \@plus3\bp@
617
                 \belowdisplayshortskip 6\bp@ \@plus3\bp@ \@minus3\bp@
618
                 \def\@listi{\leftmargin\leftmargini
619
                                            \topsep 6\bp@ \@plus2\bp@ \@minus2\bp@
620
                                            \parsep 3\bp@ \@plus2\bp@ \@minus\bp@
621
                                             \itemsep \parsep}%
622
                 \belowdisplayskip \abovedisplayskip
623
          }
624
          \renewcommand\scriptsize{\@setfontsize\scriptsize{7.5\bp@}{12.5\bp@}}
625
          \mbox{renewcommand}\tiny{\entropy{6.5\bp@}{10.83\bp@}}
626
          \ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ens
627
          \renewcommand\Large{\@setfontsize\Large{18\bp@}{30\bp@}}
628
          \mbox{renewcommand}\LARGE{\@setfontsize}\LARGE{22\bp@}{36.67\bp@}}
629
          \label{local-continuous} $$\operatorname{\normal-def}_{\normal-def} \end{24\bp@}{40\bp@}}$
630
         \ensuremath{\mbox{\mbox{\mbox{$1$}}} \ensuremath{\mbox{\mbox{\mbox{\mbox{$43.33$}}}}
631
632\fi
633 \setlength{\parindent}{2\ccwd}
634\setlength{\parskip}{\z@}
```

A.14 数学

定义新的数学符号:

```
635 \RequirePackage{upgreek}
636 \renewcommand\pi{\uppi}

小于等于号要使用倾斜的形式。
637 \RequirePackage{amssymb}
638 \renewcommand\le{\leqs\lant}
639 \renewcommand\leq{\leqs\lant}
640 \renewcommand\ge{\geqs\lant}
641 \renewcommand\geq{\geqs\lant}
```

IMEX 在使用 10pt 选项时有 DeclareMathSizes}{\@xpt}{\@xpt}{7}{5}}, 这里按照相同的比例设置 10.5 bp。

642 \DeclareMathSizes{10.5bp}{10.5bp}{7.35bp}{5.25bp}

A.15 图、表

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。

This macro holds the maximum proportion (as a decimal number) of a text page or column that can be occupied by floats at the top. (Original: .7)

```
643 \renewcommand{\topfraction}{.85}
```

This macro holds the maximum proportion (as a decimal number) of a text page or column that can be occupied by floats at the bottom. (Original: .3)

```
644 \renewcommand{\bottomfraction}{.65}
```

This macro holds the minimum proportion (as a decimal number) of a text page or column that must be occupied by text. (Original: .2)

```
645 \renewcommand\textfraction{.15}
```

This macro holds the minimum proportion (as a decimal number) of a page or column that must be occupied by floating objects before a 'float page' is produced. (Original: .5)

用 caption 宏包设置图、表的格式注意计算 belowskip 必须用 calc 宏包修正。

```
647 \RequirePackage{caption}
648 \RequirePackage{calc}
649 \DeclareCaptionLabelSeparator{zhspace}{\hspace{\ccwd}}
650 \captionsetup{
651    format = hang,
652    font = small,
653    labelsep = zhspace,
654 }
655 \if@ustc@bachelor\else
656    \captionsetup{font+=bf}
657 \fi
```

```
658 \captionsetup[figure]{
                                    position = bottom,
                   659
                                    aboveskip = 6bp,
                   660
                   661
                                    belowskip = {12bp-\intextsep},
                   662 }
                   663 \captionsetup[table]{
                                    position = top,
                   664
                                    aboveskip = 6bp,
                   665
                                    belowskip = 6bp,
                   666
                   667 }
                               使表的字号略小。
                   668% \BeforeBeginEnvironment{tabular}{\small}
                   669% \AtBeginEnvironment{longtable}{\small}
\note 新定义了 \note 来生成图标的附注。如果用 \caption 生成图标的附注会导致图标的序号有
                   误;如果用\bicaption会导致表注无法置于表后,而且对齐方式不对。
                   670 \newcommand \note [1] {%}
                   671
                                    \captionsetup{position = bottom, font = small}
                                    \caption*{\hangindent=2\ccwd\relax\ustc@notesname\rmfamily#1}}
                   A.16 脚注
                               脚注用带圈的数字:
                   673 \renewcommand{\thefootnote}{\ustc@textcircled{footnote}}
                                脚注线长为版心宽度的四分之一:
                   674 \renewcommand\footnoterule{%
                             \kern-3\p@
                              \hrule\@width.25\textwidth
                              \kern2.6\p@}
                               注文缩进两字:
                   678 \renewcommand \@makefntext[1] {%
                              \parindent 2\ccwd%
                   679
                              \noindent
                   680
                              \begin{tabular}{ll} \beg
                   A.17 参考文献
                                定义接口切换引用文献的标注法,可用\citestyle调用 super \authoryear 或 numbers。
                   682 \if@ustc@numerical
                   683 \PassOptionsToPackage{sort&compress}{natbib}
                   684∖fi
```

```
685 \RequirePackage{natbib}
                                            686 \newcommand \bibstyle@super{\bibpunct{[]}{]}{,}{s}{,}{\textsuperscript{,}}}}
                                            687 \mbox{ newcommand bibstyle@numbers { bibpunct { [} { ]} { ,} { n} { ,} { ,} } 
                                            688 \label{lem:commandbibstyle} $$ \end{area} in which is tyle @authoryear {\bibpunct{()}{)}{;}{a}{,}{,}} $$
\ustcbibstyle 定义接口切换参考文献表的风格,可选 authoryear 和 numerical,这个仅用于 chapterbib。
                                            689 \def\tmp@numerical{numerical}
                                            690 \def\tmp@authoryear{authoryear}
                                            691 \newcommand\ustcbibstyle[1]{%
                                                         \label{lem:lemp_gbt} $$ \end{time} $$ \end
                                            692
                                                         \ifx\tmp@gbt\tmp@numerical%
                                            693
                                                               \bibliographystyle{ustcnumerical}%
                                            694
                                            695
                                                               \ifx\tmp@gbt\tmp@authoryear%
                                            696
                                                                     \bibliographystyle{ustcauthoryear}%
                                            697
                                                               \else%
                                            698
                                                                     \PackageError{ustcthesis}{Unknown argument #1.}
                                            699
                                                                     {It should be `numerical' or `authoryear'.}
                                            700
                                                               \fi%
                                            701
                                                         \fi%
                                            702
                                            703 }
                                                          处理宏包选项。
                                            704 \if@ustc@bachelor
                                           705
                                                         \if@ustc@super
                                                               \citestyle{super}
                                            706
                                                         \else
                                            707
                                                              \citestyle{numbers}
                                            708
                                            709
                                                         \bibliographystyle{ustcbachelor}%
                                            710
                                            711 \else
                                                        \if@ustc@numerical
                                            712
                                            713
                                                               \if@ustc@super
                                                                     \citestyle{super}
                                            714
                                                               \else
                                            715
                                                                    \citestyle{numbers}
                                            716
                                                               \fi
                                           717
                                                               \bibliographystyle{ustcnumerical}%
                                           718
                                                         \else
                                            719
                                                               \citestyle{authoryear}
                                            720
                                                               \bibliographystyle{ustcauthoryear}%
                                            721
                                                       \fi
                                            722
                                            723\fi
```

下面修改 natbib 的引用格式,主要是将页码写在上标位置。Numerical 模式的 \citet 的

```
页码:
724 \patchcmd\NAT@citexnum{%
   \@ifnum{\NAT@ctype=\z@}{%
     \if*#2*\else\NAT@cmt#2\fi
726
727
   \NAT@mbox{\NAT@@close}%
728
729 }{%
   \NAT@mbox{\NAT@@close}%
730
   \ensuremath{\mbox{0ifnum}{\NAT@ctype=\z@}{\%}}
     \if*#2*\else\textsuperscript{#2}\fi
733 }{}%
734 }{}{}
   Numerical 模式的 \citep 的页码:
736 \text{if*#2*}\ensuremath{\text{else#2}\NAT@spacechar}\fi
737 \unskip\kern\p@\textsuperscript{\NAT@@open#1\NAT@@close\if*#3*\else#3\fi}%
    \else #1\fi\endgroup}
739 \renewcommand\NAT@citenum%
740
     $1\AT_{eclose}if*#3*\else\textsuperscript{#3}\fi\else#1\fi\endgroup}
741
    Author-year 模式的 \citet 的页码:
742 \patchcmd{\NAT@citex}{%
743 \if*#2*\else\NAT@cmt#2\fi
744 \if\relax\NAT@date\relax\else\NAT@@close\fi
745 }{%
746 \if\relax\NAT@date\relax\else\NAT@@close\fi
747 \if*#2*\else\textsuperscript{#2}\fi
748 }{}{}
   Author-year 模式的 \citep 的页码:
749 \renewcommand\NAT@cite%
750
     #1\NAT@@close\if*#3*\else\textsuperscript{#3}\fi\else#1\fi\endgroup}
751
    参考文献列表宋体 10.5 磅, 行距 20 磅, 续行缩进两字
752 \renewcommand\bibfont{\setfontsize{10.5bp}[20bp]}
753 \setlength{\bibsep}{\z@}
754 \setlength{\bibhang}{2\ccwd}
755 \renewcommand\@biblabel[1]{[#1]\hfill}
    将 URL 设置为保持原样,并增加可断行的位置。
756 \urlstyle{same}
757 \g@addto@macro\UrlBreaks{%
```

```
\do\A\do\B\do\C\do\D\do\E\do\F\do\G\do\H\do\J\
         761
            \do\U\do\V\do\X\do\Y\do\Z\%
            \do\1\do\2\do\3\do\4\do\5\do\6\do\7\do\8\do\9\do\0%
         764
         765 }
\bibsection 为了将参考文献加入目录和 pdf 书签,重新定义了 natbib 的 bibsection
         766 \renewcommand\bibsection{%
              \@mainmatterfalse
         767
              \chapter{\bibname}%
         768
         769
              \@mainmattertrue
         770 }
         A.18 附录
```

acknowledgements 定义了一个满足要求的致谢环境:

771 \newenvironment{acknowledgements}{%

772 \if@ustc@bachelor

773 \ustc@chapter{\ustc@acknowledgementsname}%

\chapter{\ustc@acknowledgementsname}%

776 \fi

777 }{}

publications 发表成果环境:

778 \newenvironment{publications}{\chapter{\ustc@publicationsname}}{} 779 (/class)

命令索引

意大利体的数字表示描述对应索引项的页码;带下划线的数字表示定义对应索引项的 代码行号; 罗马字体的数字表示使用对应索引项的代码行号。

Symbols	570, 581, 601, 608, 619	\@ustc@addtocspacefalse .
\@afterindenttrue \dots 173	\@mainmatterfalse 767	543, 545, 546
\@biblabel 755	\@mainmattertrue 168,769	$\ensuremath{\texttt{Qustc@addtocspacetrue}}\ 26,544$
\@chapter 184	\@makefnmark 681	$\verb \@ustc@bachelorfalse . 10,11$
\@ifclasslater 37	\@makefntext 678	\@ustc@bachelortrue 12
\@ifnum 725,731	\@schapter 184	\@ustc@doctorfalse 11,12
\@listI 563,601	\@starttoc 488,537,541	$\verb @ustc@doctortrue 10 $
\@listi 563,	\@topnum 172	\@ustc@englishfalse 14

\@ustc@englishtrue 15	\AtBeginEnvironment 669	C
$\verb \@ustc@masterfalse 10,12$	_	\C 761
$\verb \@ustc@mastertrue 11 $	В	\c 758
$\verb \@ustc@numericalfalse20 \\$	\B	\c@page 153
$\verb \@ustc@numericaltrue . 18,19$	\b	\caption 672
$\verb \@ustc@pdffalse 16$	\backmatter 545	\captionsetup
$\verb \@ustc@pdftrue $	\BeforeBeginEnvironment . 668	650, 656, 658, 663, 671
$\ensuremath{\texttt{Qustc@professionaltrue}}$ 13	\belowdisplayshortskip	\ccwd 73,218,
\@ustc@superfalse 19		225, 231, 232, 239, 240,
\@ustc@supertrue 18	569, 580, 599, 607, 618	247, 248, 256, 257, 284,
\@width 676	\belowdisplayskip 562,	291, 296, 382, 479, 495,
	574, 585, 600, 612, 623	498, 500, 503, 511, 514,
Numbers	\bibfont 752	516, 519, 521, 525, 530,
\0 764	\bibhang 754	633, 649, 672, 679, 681, 754
\1 764	\bibliographystyle	\cdot 490
\2 764	694, 697, 710, 718, 721	\chapter 170,
\3 764	\bibname	311, 467, 474, 768, 775, 778
\4 764	\bibpunct 686, 687, 688	\chapterautorefname 121
\5 764	\bibsection	$\verb \chaptermark \dots 152, 306, 309$
\6 764	\bibsep 753	\chinese \dots 268,273,277
\7 764	\bibstyle@authoryear 688	\citestyle 706,708,714,716,720
\8 764	\bibstyle@numbers 687	\ClassError 38,189
\9 764	\bibstyle@super 686	\cleardoublepage
	\bottomfraction 644	153, 165, 171, 302, 320,
	\bp@ 142, 143, 147,	322, 327, 485, 535, 539, 549
\	148, 176, 178, 181, 214,	\clearpage 153,
A	219, 220, 224, 226, 227,	163, 171, 302, 535, 539, 549
A 761	230, 233, 234, 237, 241,	\contentsname 487
\A	242, 245, 254, 267, 271,	\contentspage \dots 496,501,
\a	276, 281, 287, 366, 367,	506, 512, 517, 522, 528, 533
\abovedisplayshortskip	369, 370, 372, 374, 376,	\contentspush
560,	381, 393, 394, 396, 398,	495,500,505,511,516,521
568, 579, 598, 606, 617	400, 403, 408, 433, 436,	\CTEX@todayold 100
\abovedisplayskip 559,	449, 494, 499, 504, 510,	\ctexset 176, 178, 212, 265, 551
562,567,574,578,585,	512, 515, 517, 520, 522,	\CurrentOption 21
597,600,605,612,616,623	526, 531, 551, 553, 555,	_
abstract (environment) . $6,\underline{465}$	558, 559, 560, 561, 566,	D
acknowledgements (environ-	567, 568, 569, 571, 572,	\D
ment) 6, <u>771</u>	577, 578, 579, 580, 582,	\d
\addtocontents 181	583, 587, 588, 589, 590,	\date 99
\addvspace 181, 510, 526, 531	591, 592, 593, 596, 597,	\DeclareMathSizes 642
\appendix 546	598, 599, 604, 605, 606,	\DeclareOption
\appendixautorefname 120	607, 609, 610, 615, 616,	10, 11, 12, 13, 14,
\arabic 238, 246, 282, 289	617, 618, 620, 621, 625,	15, 16, 17, 18, 19, 20, 21
\arraystretch 459	626, 627, 628, 629, 630, 631	\dimexpr 72

\ding 192	\global 172	\itemsep 554,573,584,611,622
\do 758,		•
759,760,761,762,763,764	H 7/1	J
F2	\H	\J
E 761	\h	\j 758
\E	\hangindent 479, 482, 672	K
\e	\hb@xt@	\K 762
enabstract (environment) 6 , <u>472</u> \endate	\headrulewidth 138	\k 759
\enkeywords 6,481,481	\hfill 755	\kern 675,677,737
environments: $0, \frac{401}{401}, 401$	\hrule 676	\keywords 6, <u>478</u> , 478
	\hspace	
abstract $6,\underline{465}$	218, 225, 231, 239, 247,	L
acknowledgements $6, \underline{771}$	256, 382, 455, 527, 532, 649	\L 762
enabstract 6, <u>472</u> notation 6, 548	\hss 75,681	\1 759
· 	\hypersetup 50,60,66	\le 638
publications $6, \underline{778}$	(Hypersecup 50,00,00	\leftmargin . 570,581,608,619
\equationautorefname 114	I	\leftmargini 570,581,608,619
\ExecuteOptions 22	\I 761	\leftmark 147
F	\i 758	\leq 639
\F	\if@mainmatter 175,197	\leqslant 638,639
\f	\if@openright 171,302	\linespread 72
\fancyfoot 143,148,150	\if@twocolumn 154	\listfigurename 108,536
\fancyhead 142,147	\if@twoside 153	\listoffigures $6, \underline{534}$
\fancyhf 141, 146	\if@ustc@addtocspace 24,180	\listoftables 6, <u>538</u>
\fancypagestyle . 140,145,150	\if@ustc@bachelor	\listtablename 109,540
\fangsong 366	. 4, 25, 139, 156, 162,	M
\figureautorefname 117	174, 196, 263, 324, 466,	\M 762
\figurename 102	473, 486, 491, 535, 539,	\m
\floatpagefraction 646	542, 549, 556, 655, 704, 772	\mainmatter 161,544
\fontsize 72	\ightharpoonup \if@ustc@doctor 2,331	\make@cntitle 320, 362
\footnoteautorefname 115	$\injline (1.0,0.00) \label{eq:condition} \$	\make@entitle 322, <u>389</u>
\footnoterule 674	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	\make@statement 327,431
\frontmatter 155,543	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	\maketitle 312
	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	\MessageBreak 39,40
G	\if@ustc@professional	
\G 761	5, 332, 340, 368, 397	N
\g 758	\if@ustc@super 8,705,713	\N 762
\g@addto@macro 155,	\ifNAT@swa 735,740,750	\n 759
543, 544, 545, 546, 757	\ifodd 153	\NAT@@close 728,
\gdef 78,79	\IfValueTF 72,304	730,737,741,744,746,751
\ge 640	\includegraphics	\NAT@open 737,740,750
\geometry	367, 371, 375, 399, 402	\NAT@cite 749
\geq 641	\intextsep 661	\NAT@citenum
\geqslant 640,641	\itemautorefname 116	\NAT@citesuper 735

\NAT@citex 742	\pi 636	\tableofcontents 6 , <u>484</u>
\NAT@citexnum 724	\ProcessOptions	\textfraction 645
\NAT@cmt 726,743	publications (environment)	\textsuperscript 686,
\NAT@ctype 725,731	6 ,778	732, 737, 741, 747, 751
\NAT@date 744,746	, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	\textwidth 361, 366, 393, 676
\NAT@mbox	Q	\the 192
\NAT@spacechar . 736,740,750	\Q 762	\thechapter 217
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