NJUREPO: 为了方便而整合起来的模板

郑奘巍

zhengzangw@gmail.com

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摘要

此宏包旨在建立一个免于配置的作业、实验报告模板。借鉴的宏包如下:

- 清华大学 ТниТнеsishttps://github.com/xueruini/thuthesis
- 南京大学 NJUBachelor https://github.com/ZLCao/NJUBachelor

免责声明

- 1. 本模板的发布遵守 LATEX Project Public License,使用前请认真阅读协议内容。
- 2. 本模板为作者根据清华大学的论文模板 ThuThesis 等改写而成。因作者能力有限,可以选择使用 ThuThesis 模板并自定义选项和手动添加宏包,可能达到比本模板更加好的效果。
- 3. 任何个人或组织以本模板为基础进行修改、扩展而生成的新的专用模板,请严格遵守 LATEX Project Public License 协议。由于违犯协议而引起的任何纠纷争端均与本模板作者无关。

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1 安装

NJUREPO 尚未包含于 TeX 发行版中,需要自行前往 ginjub 主页安装。相关链接:

• 主页: 有待添加

1.1 模板的组成

下表列出了 NJUREPO 的主要文件及其功能介绍:

文件 (夹)	功能描述
njurepo.ins njurepo.dtx	DocStrip 驱动文件(开发用) DocStrip 源文件(开发用)
njurepo.cls	模板类文件
njurepo.sty	为示例文档加载其它宏包
njurepo.pdf	用户手册 (本文档)

2 使用说明

2.1 选项

language

论文的主要语言(默认:中文)。可选: chinese, english。

secret

尚未添加的选择

open

- secret: 同 thuthesis 的设置
- open: any 为页面连续, right 为章节奇数页

2.2 字体配置

使用 CTrX 默认字体配置

2.2.1 字体命令

字体 田来切:

用来切换宋体、仿宋、黑体、楷体四种基本字体。定义字体大小,分别为

\songti \fangsong

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

\heiti \kaishu

字号 \chuhao

使用方法为: $\langle num \rangle$], 其中 command 为字号命令, num 为行距。比如 $\langle num \rangle$]。表示选择小四字体,行距 1.5 倍。写作指南要求表格中的字体是 $\langle num \rangle$ 人。

\xiaochu

\yihao

\xiaoyi

\bahao

3 实现细节

3.1 基本信息

```
1 \langle *cls \rangle
  2 \NeedsTeXFormat{LaTeX2e}
  3\ProvidesClass{njurepo}[2019/01/25 1.0.0 Nanjing University Report Template]
    定义选项
3.2
    使用 kvoptions 宏包进行选项设置
  4\hyphenation{NJU-repo}
  5 \def\njurepo{\textsc{NJU}\-\textsc{repo}}
  6 \def\thuthesis{\textsc{Thu}\-\textsc{Thesis}}
  7\def\version{1.0.0}
  8 \RequirePackage{kvoptions}
  9\SetupKeyvalOptions{
       family=nju,
 11
       prefix=nju@,
       setkeys=\kvsetkeys
 12
 13 }
 14 \DeclareStringOption[chinese] {language}[chinese]
 15 \DeclareStringOption[any] {open} [any]
 16 \DeclareBoolOption{wide}
 17 \DeclareBoolOption{color}
 18 \DeclareBoolOption{draft}
 19 \DeclareBoolOption{awesomefont}
 20 \DeclareDefaultOption{\PassOptionsToClass{\CurrentOption}{ctexbook}}
 22 \ProcessKeyvalOptions*
    检测选项是否合法
 23 \newcommand\nju@validate@key[1]{%
     \@ifundefined{nju@\csname nju@#1\endcsname true}{%
       \ClassError{njurepo}{Invalid value '\csname nju#1\endcsname'}{}
 25
 26
       }{%
         \csname nju@\csname nju@#1\endcsname true\endcsname
 27
       }
 28
 29 }
 30 \newif\ifnju@chinese
 31 \newif\ifnju@english
 32 \nju@validate@key{language}
 33 \newif\ifnju@any
 34 \newif\ifnju@right
 35 \nju@validate@key{open}
    使用 ctexbook 宏包
```

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

3.3 加载宏包 3 实现细节

3.3 加载宏包

69

73

74

75

77

pdfborder=0 0 0}

71 \urlstyle{same} 72 \def\UrlBreaks{% \do\/%

```
用于开发的宏包
37 \RequirePackage{etoolbox}
38 \RequirePackage{ifxetex}
39 \RequirePackage{xparse}
40 \RequirePackage{amsmath}
41 \RequirePackage{graphicx}
42 \graphicspath{{figs/}}
43\graphicspath{{figs/logo/}}
44 \RequirePackage[labelformat=simple] {subcaption}
45 \RequirePackage{pdfpages}
46 \includepdfset{fitpaper=true}
47 \RequirePackage{CJKfntef}
48 \RequirePackage[amsmath, thmmarks, hyperref]{ntheorem}
49 \RequirePackage{array}
50 \RequirePackage{longtable}
51 \RequirePackage[sort&compress]{natbib}
52 \RequirePackage{booktabs}
   招链接插入
53 \RequirePackage{hyperref}
54\ifxetex
   \hypersetup{%
55
      CJKbookmarks=true}
56
57 \else
   \hypersetup{%
58
      unicode=true,
59
      CJKbookmarks=false}
60
61\fi
62 \hypersetup{%
   linktoc=all,
64
   bookmarksnumbered=true,
   bookmarksopen=true,
65
   bookmarksopenlevel=1,
   breaklinks=true,
67
   colorlinks=false,
68
   plainpages=false,
```

3.4 页面设置 3 实现细节

```
79 \do\*\do\-\do\'\do\'\do\''\do\-}
80 \Urlmuskip=0mu plus 0.1mu
页眉页脚设置
81 \RequirePackage{fancyhdr}
82 \RequirePackage{notoccite}
```

3.4 页面设置

```
使用了 thuthesis 的非本科生默认配置。
```

```
83 \RequirePackage{geometry}
84\ifnju@wide
85 \geometry{
       a4paper, %210*297mm
86
       hcentering,
87
       ignoreall,
 88
       nomarginpar,
 89
       left=10mm,
 90
 91
       headheight=5mm,
       headsep=5mm,
 92
       textheight=237mm,
 93
       bottom=29mm,
94
       footskip=6mm
96}\else
97\geometry{
       a4paper, %210*297mm
       hcentering,
       ignoreall,
100
101
       nomarginpar,
       left=30mm,
102
       headheight=5mm,
103
       headsep=5mm,
104
       textheight=237mm,
105
       bottom=29mm,
106
107
       footskip=6mm
108 }
109 \fi
```

3.5 主文档格式

\cleardoublepage

```
110 \let\nju@cleardoublepage\cleardoublepage
111 \newcommand{\nju@clearemptydoublepage}{%
112 \clearpage{\pagestyle{nju@empty}\nju@cleardoublepage}}
113 \let\cleardoublepage\nju@clearemptydoublepage
```

\frontmatter

```
\mainmatter
              114 \renewcommand \frontmatter{%
                     \ifnju@right\cleardoublepage\else\clearpage\fi
\backmatter
              116
                     \@mainmatterfalse
                     \pagenumbering{Roman}
              117
              118
                     \pagestyle{nju@empty}}
              119 \renewcommand\mainmatter{%
                     \ifnju@right\cleardoublepage\else\clearpage\fi
              120
              121
                     \@mainmattertrue
                     \pagenumbering{arabic}
              122
                     \pagestyle{nju@headings}}
              123
              124 \renewcommand\backmatter{%
                     \ifnju@right\cleardoublepage\else\clearpage\fi
              125
                     \@mainmattertrue}
              126
```

3.6 字体与字号

3.6.1 英文字体

配置英文字体。

```
127 \newcommand\nju@fontset{\csname g__ctex_fontset_tl\endcsname}
128\ifthenelse{\equal{\nju@fontset}{fandol}}{
    \setmainfont[
129
130
      Extension
                      = .otf,
131
      UprightFont
                      = *-regular,
      BoldFont
                      = *-bold,
132
      ItalicFont
                      = *-italic,
133
      BoldItalicFont = *-bolditalic,
134
135
    ]{texgyretermes}
    \setsansfont[
136
      Extension
                      = .otf,
137
      UprightFont
                      = *-regular,
138
139
      BoldFont
                      = *-bold.
      ItalicFont
                      = *-italic,
140
      BoldItalicFont = *-bolditalic,
141
    ]{texgyreheros}
142
143
    \setmonofont[
      Extension
                      = .otf,
144
                      = *-regular,
      UprightFont
145
      BoldFont
                      = *-bold.
146
      ItalicFont
                      = *-italic,
147
      BoldItalicFont = *-bolditalic,
148
      Scale
                      = MatchLowercase,
149
    ]{texgyrecursor}
150
151 } {
    \setmainfont{Times New Roman}
```

```
153 \setsansfont{Arial}[SmallCapsFont=spinweradCBold]
154 \ifthenelse{\equal{\nju@fontset}{mac}}{
155 \setmonofont[Scale=MatchLowercase]{Menlo}
156 }{
157 \setmonofont[Scale=MatchLowercase]{Courier New}
158 }
159}
```

3.6.2 数学环境字体

配置数学字体(使用 unicode-math)

```
160 \RequirePackage{unicode-math}
161 \unimathsetup{
162 math-style = ISO,
    bold-style = ISO,
163
    nabla
                = upright,
164
                = upright,
    partial
165
166 }
167 \IfFontExistsTF{STIX2Math.otf}{
    \setmathfont[StylisticSet=8]{STIX2Math.otf}
168
    \setmathfont[range={scr,bfscr},StylisticSet=1]{STIX2Math.otf}
    \IfFontExistsTF{XITSMath-Regular.otf}{
170
      \setmathfont[range={\partial,\lbrace,\rbrace}]{XITSMath-Regular.otf}
171
172
    }{
      \setmathfont[range={\partial,\lbrace,\rbrace}]{xits-math.otf}
173
    }
174
175 } {
    \setmathfont[
176
      Extension
                    = .otf,
177
      BoldFont
                    = *bold,
178
      StylisticSet = 8,
    ]{xits-math}
180
    \setmathfont[range={cal,bfcal},StylisticSet=1]{xits-math.otf}
182 }
```

3.6.3 数学环境符号

```
\ldots 省略号一律居中,所以\ldots不再居于底部。

183\ifnju@chinese

184 \def\mathellipsis{\cdots}

185\fi

\le 小于等于号要使用倾斜的形式。
\ge 186\protected\def\le{\leqslant}
\leq 187\protected\def\ge{\geqslant}
\qeq 188\AtBeginDocument{%
```

```
\renewcommand\leq{\leqslant}%
             189
                \renewcommand\geq{\geqslant}%
             191 }
      \int 积分号\int 使用正体,并且上下限默认置于积分号上下两侧。
             192 \removenolimits{%
                \int\iint\iiint\oint\oiint\oiint
             193
                \intclockwise\varointclockwise\ointctrclockwise\sumint
                \intbar\intBar\fint\cirfnint\awint\rppolint
             195
                \scpolint\npolint\pointint\sqint\intlarhk\intx
             196
                \intcap\intcup\upint\lowint
             198 }
            实部、虚部操作符使用罗马体 Re、Im 而不是 fraktur 体 咒、ℑ。\nabla 使用粗正体。
       \Im
            199 \AtBeginDocument{%
    \nabla
            200
                \renewcommand{\Re}{\operatorname{Re}}%
                 \renewcommand{\Im}{\operatorname{Im}}%
             201
             202
                 \renewcommand\nabla{\mbfnabla}%
             203 }
            兼容旧的粗体命令: bm 的 \bm 和 amsmath 的 \boldsymbol。
\boldsymbol
            204 \newcommand\bm{\symbf}
             205 \renewcommand\boldsymbol{\symbf}
            兼容 amssymb 中的命令。
   \square
             206 \newcommand\square{\mdlgwhtsquare}
                允许太长的公式断行、分页等。
             207 \allowdisplaybreaks[4]
             208 \renewcommand\theequation{\ifnum \c@chapter>\z@ \thechapter-\fi\@arabic\c@equation}
                公式距前后文的距离由 4 个参数控制,参见 \normalsize 的定义。
             209 \def\make@df@tag{\@ifstar\nju@make@df@tag@@\make@df@tag@@@}
              210 \ def \ nju@make@df@tag@@#1{\ gdef\ df@tag{\ nju@maketag{#1}} \ def\ @currentlabel{#1}}} 
             211 \def\nju@maketag#1{\maketag@@@{(\ignorespaces #1\unskip\@@italiccorr)}}
             212 \def\tagform@#1{\maketag@@@{(\ignorespaces #1\unskip\@@italiccorr)\equcaption{#1}}}
            修改 \tagform 会影响 \egref。
            213 \renewcommand{\eqref}[1]{\textup{(\ref{#1}))}}
```

3.6.4 中文字体

ctex在微软下使用雅黑字体,在 macOS 下使用苹方字体。这里不做更改。

3.6.5 字号

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
/]/	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	

\normalsize 默认正文小四号 (12bp) 字, 行距为固定值 20 bp。

```
214 \renewcommand\normalsize{%
```

- 215 \@setfontsize\normalsize{12bp}{20bp}%
- 216 \abovedisplayskip=12bp \@plus 2bp \@minus 2bp
- 217 \abovedisplayshortskip=12bp \@plus 2bp \@minus 2bp
- 218 \belowdisplayskip=\abovedisplayskip
- 219 \belowdisplayshortskip=\abovedisplayshortskip}

\nju@def@fontsize 根据习惯定义字号。用法: \nju@def@fontsize{\ 字号名称\}}{\ 磅数\}

避免了字号选择和行距的紧耦合。所有字号定义时为单倍行距,并提供选项指定行距倍数。

10

- 220 \def\nju@def@fontsize#1#2{%
- 221 \expandafter\newcommand\csname #1\endcsname[1][1.3]{%
- 222 \fontsize{#2}{##1\dimexpr #2}\selectfont}}

\chuhao 一组字号定义。

 \xiaochu
 223 \nju@def@fontsize{chuhao}{42bp}

 \yihao
 224 \nju@def@fontsize{xiaochu}{36bp}

 \xiaoyi
 225 \nju@def@fontsize{yihao}{26bp}

 \erhao
 226 \nju@def@fontsize{xiaoyi}{24bp}

 \xiaoer
 227 \nju@def@fontsize{erhao}{22bp}

 \xiaoer
 228 \nju@def@fontsize{xiaoer}{18bp}

 \sanhao
 229 \nju@def@fontsize{sanhao}{16bp}

230 \nju@def@fontsize{xiaosan}{15bp}

\xiaosan \sihao

\banxiaosi

\xiaosi

\x1aos

\dawu

3.7 中文标点 3 实现细节

```
231 \nju@def@fontsize{sihao}{14bp}
232 \nju@def@fontsize{banxiaosi}{13bp}
233 \nju@def@fontsize{xiaosi}{12bp}
234 \nju@def@fontsize{dawu}{11bp}
235 \nju@def@fontsize{wuhao}{10.5bp}
236 \nju@def@fontsize{xiaowu}{9bp}
237 \nju@def@fontsize{liuhao}{7.5bp}
238 \nju@def@fontsize{xiaoliu}{6.5bp}
239 \nju@def@fontsize{qihao}{5.5bp}
240 \nju@def@fontsize{bahao}{5bp}
```

3.7 中文标点

由于 Unicode 的一些标点符号是中西文混用的: U+00B7 (·)、U+2013 (¬)、U+2014 (─)、U+2018 (′)、U+2019 (′)、U+201C (")、U+201D (")、U+2025 (···)、U+2026 (···)、U+2E3A (□),所以要根据语言设置正确的字体。¹ 所以要根据语言设置正确的字体。

```
241 \newcommand\nju@setchinese{%
    \xeCJKResetPunctClass
242
243 }
244 \newcommand\nju@setenglish{%
     \xeCJKDeclareCharClass{HalfLeft}{"2018, "201C}%
245
    \xeCJKDeclareCharClass{HalfRight}{
246
       "00B7, "2019, "201D, "2013, "2014, "2025, "2026, "2E3A,
247
    }%
248
249 }
250 \newcommand\nju@setdefaultlanguage{%
    \ifnju@chinese
251
       \nju@setchinese
252
    \else
253
254
       \nju@setenglish
    \fi
255
256 }
```

3.8 局部设置

3.8.1 页眉页脚

定义页眉和页脚样式。

\ps@nju@empty
\ps@nju@plain
\ps@nju@headings

• nju@empty: 页眉页脚都没有

• nju@plain: 只显示页脚的页码。\chapter 自动调用 \thispagestyle{nju@plain}。

• nju@headings: 页眉页脚同时显示

257 \fancypagestyle{nju@empty}{%

258 \fancyhf{}

¹https://github.com/CTeX-org/ctex-kit/issues/389

```
\renewcommand{\headrulewidth}{0pt}
259
    \renewcommand{\footrulewidth}{Opt}}
260
261 \fancypagestyle{nju@plain}{%
    \fancyhead{}
262
    \fancyfoot[C]{\xiaowu\thepage}
263
    \renewcommand{\headrulewidth}{0pt}
264
    \renewcommand{\footrulewidth}{0pt}}
265
266 \fancypagestyle{nju@headings}{%
    \fancyhead{}
267
    \fancyhead[C]{\wuhao\normalfont\leftmark}
268
    \fancyfoot{}
    \fancyfoot[C]{\wuhao\thepage}
270
    \renewcommand{\headrulewidth}{0.4pt}
271
    \renewcommand{\footrulewidth}{0pt}}
```

3.8.2 段落

全文首行缩进2字符,标点符号用全角

```
273 \ctexset{%
274    punct=quanjiao,
275    space=auto,
276    autoindent=true}
```

3.8.3 列表

利用 enumitem 命令调整默认列表环境间的距离,以符合中文习惯。

```
277 \RequirePackage[shortlabels]{enumitem}
278 \RequirePackage{environ}
279 \setlist{nosep}
```

3.8.4 脚注

脚注符合中文习惯,数字带圈。

```
280 \ifthenelse{\equal{\nju@fontset}{mac}}{
    \newfontfamily\nju@circlefont{Songti SC Light}
281
282 } {
    \ifthenelse{\equal{\nju@fontset}{windows}}{
283
       \newfontfamily\nju@circlefont{SimSun}
284
285
    }{
       \IfFontExistsTF{XITS-Regular.otf}{
286
         \newfontfamily\nju@circlefont{XITS-Regular.otf}
287
288
       }{
         \newfontfamily\nju@circlefont{xits-regular.otf}
289
       }
290
291
    }
292 }
```

```
293 \def\nju@textcircled#1{%
    \ifnum\value{#1} >9%
294
      \ClassError{njurepo}%
295
        {Too many footnotes in this page.}{Keep footnote less than 10.}%
296
    \fi
297
    {\nju@circlefont\symbol{\numexpr\value{#1}+"245F\relax}}%
298
299 }
300 \renewcommand{\thefootnote}{\nju@textcircled{footnote}}
301 \renewcommand{\thempfootnote}{\nju@textcircled{mpfootnote}}
    定义脚注分割线,字号(宋体小五),以及悬挂缩进(1.5字符)。
302 \def\footnoterule{\vskip-3\p@\hrule\@width0.3\textwidth\@height0.4\p@\vskip2.6\p@}
303 \let\nju@footnotesize\footnotesize
304\renewcommand\footnotesize{\nju@footnotesize\xiaowu[1.5]}
305%\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。
306 \let\nju@makefnmark\@makefnmark
307 \def\nju@@makefnmark{\hbox{{\normalfont\@thefnmark}}}
308 \pretocmd{\@makefntext}{\let\@makefnmark\nju@@makefnmark}{}{}
309 \apptocmd{\@makefntext}{\let\@makefnmark\nju@makefnmark}{}{}
```

3.8.5 定理环境

定理标题使用黑体,正文使用宋体,冒号隔开。

```
310 \theorembodyfont{\normalfont}
311 \theoremheaderfont{\normalfont\heiti}
312 \theoremsymbol{\ensuremath{\square}}
313 \newtheorem*{proof}{证明}
314 \theoremstyle{plain}
315 \theoremsymbol{}
316 \theoremseparator{: }
317\ifnju@chinese
    \newcommand\nju@assumption@name{假设}
    \newcommand\nju@definition@name{定义}
319
    \newcommand\nju@proposition@name{命题}
320
    \newcommand\nju@lemma@name{引理}
321
    \newcommand\nju@theorem@name{定理}
322
    \newcommand\nju@axiom@name{公理}
323
    \newcommand\nju@corollary@name{推论}
324
    \newcommand\nju@exercise@name{练习}
325
    \newcommand\nju@example@name{例}
326
    \newcommand\nju@remark@name{注释}
327
328
    \newcommand\nju@problem@name{问题}
    \newcommand\nju@conjecture@name{猜想}
329
    \newcommand\nju@solution@name{解}
330
```

```
331 \else
    \newcommand\nju@assumption@name{Assumption}
332
    \newcommand\nju@definition@name{Definition}
333
    \newcommand\nju@proposition@name{Proposition}
334
    \newcommand\nju@lemma@name{Lemma}
335
    \newcommand\nju@theorem@name{Theorem}
336
    \newcommand\nju@axiom@name{Axiom}
337
    \newcommand\nju@corollary@name{Corollary}
338
339
    \newcommand\nju@exercise@name{Exercise}
    \newcommand\nju@example@name{Example}
340
    \newcommand\nju@remark@name{Remark}
341
    \newcommand\nju@problem@name{Problem}
342
    \newcommand\nju@conjecture@name{Conjecture}
343
    \newcommand\nju@solution@name{Solution}
344
345 \ fi
346 \theoremheaderfont{\bfseries}
347 \newtheorem{assumption}{\nju@assumption@name}[chapter]
348 \newtheorem{definition}{\nju@definition@name}[chapter]
349 \newtheorem{proposition}{\nju@proposition@name}[chapter]
350 \newtheorem{lemma}{\nju@lemma@name}[chapter]
351 \newtheorem{theorem}{\nju@theorem@name}[chapter]
352 \newtheorem{axiom}{\nju@axiom@name}[chapter]
353 \newtheorem{corollary}{\nju@corollary@name}[chapter]
354 \newtheorem{exercise}{\nju@exercise@name}[chapter]
355 \newtheorem{example}{\nju@example@name}[chapter]
356 \newtheorem{remark}{\nju@remark@name}[chapter]
357 \newtheorem{problem}{\nju@problem@name}[chapter]
358 \newtheorem{conjecture}{\nju@conjecture@name}[chapter]
359 \newtheorem{solution}{\nju@solution@name}[chapter]
361 \RequirePackage{microtype}
362
363 \ifnju@awesomefont
364\ifnju@chinese
365 \newcommand{\promisewords}{请独立完成作业,不得抄袭。\\若参考了其它资料,请给出引用。\\鼓励讨
  论,但需独立书写解题过程。}
367\newcommand{\promisewords}{I promise this work is done on my own with no plagiarism.}
368 \fi
369 \newcommand{\pshw}{\section*{\scshape Part I\ \ Homework}}
370 \newcommand{\pscr}{\section*{\scshape Part II\ \ \ Correction}}
371 \newcommand{\psfb}{\section*{\scshape Part III\ \ Feedback}}
372 \RequirePackage{fontawesome}
373 \newcommand{\Hrule}{\noindent\rule{\linewidth}{0.5mm}}
374 \theorempostwork{\vspace{-0.5cm}\Hrule}
375 \newtheorem*{pssolution}{\faPencilSquare0\ \nju@solution@name}
```

```
376 \RequirePackage[listings] {tcolorbox}
377 \newtcolorbox{ps@problem}[1]{fonttitle=\bfseries,title=#1,before skip=0.5cm, after skip=-0.5cm}
378 \newenvironment{psproblem}[1][]{
      \begin{ps@problem}{\faQuestionCircle\ \nju@problem@name #1}
379
380 } {
381
      \end{ps@problem}
382 }
383 \fi
384 %
385% \subsubsection{浮动对象}
386% \label{sec:float}
387% 设置浮动对象和文字之间的距离
388 %
       \begin{macrocode}
389 \setlength{\floatsep}{20bp \@plus4pt \@minus1pt}
390 \setlength{\intextsep}{20bp \@plus4pt \@minus2pt}
391\setlength{\textfloatsep}{20bp \@plus4pt \@minus2pt}
392 \setlength{\@fptop}{0bp \@plus1.0fil}
393 \setlength{\@fpsep}{12bp \@plus2.0fil}
394\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。
395 \renewcommand{\textfraction}{0.15}
396 \renewcommand{\topfraction}{0.85}
397 \renewcommand{\bottomfraction}{0.65}
398 \renewcommand{\floatpagefraction}{0.60}
    定制浮动图形和表格标颢样式
  • 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
399 \let\old@tabular\@tabular
400 \def\nju@tabular{\dawu[1.5]\old@tabular}
401 \ensuremat{nju}{{\dawu[1.5]\normalfont $\#1$~$\#2}}}
402 \DeclareCaptionLabelSeparator{nju}{\hspace{1em}}
403 \DeclareCaptionFont{nju}{\dawu[1.5]}
404 \captionsetup{labelformat=nju,labelsep=nju,font=nju,skip=6bp}
405 \captionsetup[table] {position=top}
406 \captionsetup[figure] {position=bottom}
407 \captionsetup[sub]{font=nju}
408 \renewcommand{\thesubfigure}{(\alph{subfigure})}
409 \renewcommand{\thesubtable}{(\alph{subtable})}
410% \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。
411 \let\nju@LT@array\LT@array
```

412 \def\LT@array{\dawu[1.5]\nju@LT@array} % set default font size

\hlinewd 简单的表格使用三线表推荐用 \hlinewd。如果表格比较复杂还是用 booktabs 的命令好一些。

```
413 \def\hlinewd#1{%

414 \noalign{\ifnum0='}\fi\hrule \@height #1 \futurelet

415 \reserved@a\@xhline}
```

3.8.6 章节标题

```
416\ifnju@chinese
    \ctexset{%
      chapter/name={第,章},
418
      appendixname= 附录,
419
      contentsname={目\hspace{\ccwd} 录},
420
      listfigurename= 插图索引,
421
      listtablename= 表格索引,
422
      figurename= 图,
423
      tablename= 表,
424
      bibname= 参考文献,
425
      indexname= 索引,
426
427
    \newcommand\listequationname{公式索引}
428
    \newcommand\equationname{公式}
429
430 \else
    \newcommand\listeguationname{List of Equations}
431
    \newcommand\equationname{Equation}
432
433 \fi
434 \newcommand{\cabstractname}{摘\hspace{\ccwd} 要}
435 \newcommand{\eabstractname}{Abstract}
436 \let\CJK@todaysave=\today
437 \def\CJK@todaysmall@short{\the\year 年 \the\month 月}
438\def\CJK@todaysmall{\the\year} 年 \the\month 月 \the\day 日}
439\def\CJK@todaybig@short{\zhdigits{\the\year} 年\zhnumber{\the\month} 月}
440 \def\CJK@todaybig{\zhdigits{\the\year} 年\zhnumber{\the\month} 月\zhnumber{\the\day} 日}
441 \def\CJK@today{\CJK@todaysmall}
442 \renewcommand\today{\CJK@today}
443 \newcommand\CJKtoday[1][1]{%
    \ifcase#1\def\CJK@today{\CJK@todaysave}
444
      \or\def\CJK@today{\CJK@todaysmall}
445
      \or\def\CJK@today{\CJK@todaybig}
447
   \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}
\def\chaptermark#1{
  \markboth{\MakeUppercase{\@chapapp\ \thechapter}}}}
```

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, fancyhdr 不知何故在 \ps@fancy 中对 \chaptermark 进行重定义(其实一模一样),而这个 \ps@fancy 会在 \fancypagestyle 中使用,如下:

```
\newcommand{\fancypagestyle}[2]{%
  \@namedef{ps@#1}{\let\fancy@gb1\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:

- 448 \AtBeginDocument{%
- 449 \pagestyle{nju@empty}
- 450 \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三号字,居中书写,单倍行距,段前空 **24** 磅,段后空 **18** 磅。本科要求:段前段后间距 30/20 pt,行距 **20**pt。但正文章节 **30**pt 的话和样例效果不一致。
- section 一级节标题,例如: 2.1 实验装置与实验方法。节标题序号与标题名之间空一个汉字符(下同)。采用黑体四号(14pt)字居左书写,行距为固定值 20 磅,段前空 24 磅,段后空 6 磅。本科: 25/12 pt, 行距 18pt。
- **subsection** 二级节标题,例如: [2.1.1 实验装置]。采用黑体 13pt 字居左书写,行距为固定值 20 磅,段前空 12 磅,段后空 6 磅。本科: 中文黑体 12pt 字,英文 13pt 字,段间距 12/6 pt,行距 15pt。
- **subsubsection** 三级节标题,例如: 2.1.2.1 归纳法 。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。

```
451 \newcommand\nju@chapter@titleformat[1]{%
       \ifthenelse%
452
         {\equal{#1}{\eabstractname}}%
453
         {\bfseries #1}%
454
         {#1}%
455
456
    }
457 \ctexset{%
    chapter={
458
       afterindent=true,
459
460
       pagestyle={nju@headings},
       beforeskip={9bp},
461
       aftername=\hskip\ccwd,
462
       afterskip={24bp},
463
       format={\centering\sffamily\sanhao[1]},
464
```

```
nameformat=\relax,
465
      numberformat=\relax,
466
       titleformat=\nju@chapter@titleformat,
467
      lofskip=0pt,
468
      lotskip=0pt,
469
    },
470
    section={
471
       afterindent=true,
472
473
      beforeskip={24bp\@plus 1ex \@minus .2ex},
       afterskip={6bp\@plus .2ex},
474
475
       format={\sffamily\sihao[1.429]},
    },
476
    subsection={
477
       afterindent=true,
478
      beforeskip={16bp\@plus 1ex \@minus .2ex},
479
      afterskip={6bp \@plus .2ex},
480
       format={\sffamily\banxiaosi[1.538]},
481
      numberformat={\sffamily\banxiaosi[1.538]},
482
    }.
483
    subsubsection={
484
485
       afterindent=true,
      beforeskip={16bp\@plus 1ex \@minus .2ex},
486
      afterskip={6bp \@plus .2ex},
487
       format={\sffamily\xiaosi[1.667]},
488
    }.
489
    paragraph/afterindent=true,
490
    subparagraph/afterindent=true}
```

\nju@chapter*

默认的\chapter*很难同时满足研究生院和本科生的论文要求。本科论文要求所有的章都出现在目录里,比如摘要、Abstract、主要符号表等,所以可以简单的扩展默认\chapter*实现这个目的。但是研究生又不要这些出现在目录中,而且致谢和声明部分的章名、页眉和目录都不同,所以定义一个灵活的\nju@chapter*专门处理这些要求。

\nju@chapter*[\langle tocline \rangle] {\langle title \rangle] {\langle title \rangle] : 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。通过这个宏我才真正体会到 TeX macro 的力量!

```
492 \newcounter{nju@bookmark}
493 \NewDocumentCommand\nju@chapter{s o m o}{
    \IfBooleanF{#1}{%
495
      \ClassError{njurepo}{You have to use the star form: \string\nju@chapter*}{}
    }%
496
    \ifnju@right\cleardoublepage\else\clearpage\fi\phantomsection%
497
    \IfValueTF{#2}{%
498
      \left\{ \frac{\#2}{}\right\} 
499
500
        \addtocounter{nju@bookmark}\@ne
        \pdfbookmark[0]{#3}{njuchapter.\thenju@bookmark}
501
```

```
}{%
502
503
         \addcontentsline{toc}{chapter}{#3}
       }
504
    }{%
505
506
       \addcontentsline{toc}{chapter}{#3}
507
     \ctexset{chapter/beforeskip=25bp}
508
     \chapter*{#3}%
509
     \ctexset{chapter/beforeskip=15bp}
510
     \IfValueTF{#4}{%
511
512
       \ifthenelse{\equal{#4}{}}
       {\@mkboth{}{}}
513
       {\mbox{\mbox{$(\mbox{\mbox{$($}$}4)}}}
514
    } {%
515
       \@mkboth{#3}{#3}
516
   }
517
518 }
```

3.8.7 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)。

```
519 \setcounter{secnumdepth}{3}
```

521 \renewcommand\tableofcontents{%

520 \setcounter{tocdepth}{2}

每章标题行前空 6 磅, 后空 0 磅。章节名中英文用 Arial 字体, 页码仍用 Times。

\tableofcontents

```
\nju@chapter*[]{\contentsname}
    \xiaosi[1.65]\@starttoc{toc}\normalsize}
调整目录样式
524 \def\@pnumwidth{2em}
525 \def\@tocrmarg{\@pnumwidth}
526 \def\@dotsep{1}
527 \renewcommand*\l@chapter[2]{%
    \ifnum \c@tocdepth >\m@ne
       \addpenalty{-\@highpenalty}%
529
530
       \vskip 4bp \@plus\p@
       \setlength\@tempdima{4em}%
531
       \begingroup
532
         \parindent \z@ \rightskip \@pnumwidth
533
         \parfillskip -\@pnumwidth
534
         \leavevmode
535
         \advance\leftskip\@tempdima
536
         \hskip -\leftskip
537
```

```
{#1}%
538
        \leaders\hbox{\$\m@th\mkern \@dotsep mu\hbox{.}\mkern \@dotsep mu\}\hfill%
539
         \nobreak{#2}\par
540
        \penalty\@highpenalty
541
542
       \endgroup
    \fi}
543
544
545 \patchcmd{\@dottedtocline}{\hb@xt@\@pnumwidth}{\hbox}{}{}
546 \renewcommand*\l@section{%
    \@dottedtocline{1}{\ccwd}{2.1em}}
548 \renewcommand*\l@subsection{%
    \@dottedtocline{2}{2\ccwd}{3em}}
550 \renewcommand*\l@subsubsection{%
    \@dottedtocline{3}{3.5em}{3.8em}}
```

3.9 附加页面

3.9.1 封面

定义封面参数。

```
552 \def\nju@def@term#1{%
    \define@key{nju}{#1}{\csname #1\endcsname{##1}}
553
    \expandafter\gdef\csname #1\endcsname##1{%
554
555
       \expandafter\gdef\csname nju@#1\endcsname{##1}}
    \csname #1\endcsname{}}
556
557 \nju@def@term{ctitle}
558 \nju@def@term{csubtitle}
559 \nju@def@term{csubsubtitle}
560 \nju@def@term{etitle}
561 \nju@def@term{esubtitle}
562 \nju@def@term{esubsubtitle}
563 \nju@def@term{cauthor}
564 \nju@def@term{csupervisor}
565 \nju@def@term{cassosupervisor}
566 \nju@def@term{ccosupervisor}
567 \nju@def@term{eauthor}
568 \nju@def@term{esupervisor}
569 \nju@def@term{eassosupervisor}
570 \nju@def@term{ecosupervisor}
571 \nju@def@term{cdegree}
572 \nju@def@term{edegree}
573 \nju@def@term{cdepartment}
574 \nju@def@term{edepartment}
575 \nju@def@term{cmajor}
576 \nju@def@term{emajor}
577 \nju@def@term{cdate}
```

```
578 \nju@def@term{edate}
                  579 \nju@def@term{stdid}
                  580 \nju@def@term{mail}
                  581 \cdate{\CJK@todaybig@short}
                  582 \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
                  583
                          \or December\fi\unskip,\ \ \the\year}
                  584
                 摘要最好以环境的形式出现(否则命令的形式会导致开始结束的括号距离太远,我不喜欢),这就
        cabstract
                 必须让环境能够自己保存内容留待以后使用。使用 environ 的 \Collect@Body 来实现。
        eabstract
                  585 \newcommand{\nju@@cabstract}[1]{\long\gdef\nju@cabstract{#1}}
                  586 \newenvironment{cabstract}{\Collect@Body\nju@@cabstract}{}
                  587 \newcommand{\nju@@eabstract}[1]{\long\gdef\nju@eabstract{#1}}
                  588 \newenvironment{eabstract}{\Collect@Body\nju@@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 来收集关键词列
\nju@parse@keywords
                  表,然后用本命令来生成符合要求的格式。
                  589 \def\nju@parse@keywords#1{
                      590
                      \expandafter\gdef\csname nju@#1\endcsname{}
                  591
                      \expandafter\gdef\csname #1\endcsname##1{
                  592
                        \@for\reserved@a:=##1\do{
                  593
                          \expandafter\ifx\csname nju@#1\endcsname\@empty\else
                  594
                           \expandafter\g@addto@macro\csname nju@#1\endcsname{%
                  595
                             \ignorespaces\csname nju@#1@separator\endcsname}
                  596
                  597
                         \fi
                         \expandafter\expandafter\expandafter\g@addto@macro%
                  598
                           \expandafter\csname nju@#1\expandafter\endcsname\expandafter{\reserved@a}}}}
                  599
                 利用 \nju@parse@keywords 来定义, 内部通过 \nju@ckeywords 和 \nju@ekeywords 来引用。
       \ckeywords
       \ekeywords
                  600 \nju@parse@keywords{ckeywords}
                  601 \nju@parse@keywords{ekeywords}
                 由上可见,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 \njusetup 命令支
        \njusetup
                 持 key/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。由于这些设置项被 \makecover 调用,所以此命令需要在
                  \makecover 之前被调用。
                  602 \def\njusetup{\kvsetkeys{nju}}
                     定义封面用到的各种文字。
                  603 \def\nju@ckeywords@separator{; }
                  604 \def\nju@ekeywords@separator{;}
                  605 \def\nju@catalog@number@title{分类号}
                  606 \def\nju@id@title{编号}
                  607 \def\nju@title@sep{: }
                  608 \def\nju@schoolname{南京大学}
```

```
609 \def\nju@author@title{姓名}
610 \def\nju@department@title{系别}
611 \def\nju@major@title{专业}
612 \def\nju@supervisor@title{指导教师}
613 \def\nju@assosuper@title{辅导教师}
614 \def\nju@studentid@title{学号}
615 \def\nju@date@title{日期}
616 \def\nju@mail@title{邮箱}
617 \newcommand{\nju@ckeywords@title}{关键词:}
618 \def\nju@title@pre{}
619
620 \def\nju@eng@title@sep{:}
621 \def\nju@eng@author@title{Name}
622 \def\nju@eng@studentid@title{StdID}
623 \def\nju@eng@date@title{Date}
624 \def\nju@eng@mail@title{E-mail}
    中文小型标题
625 \renewcommand{\maketitle}{
    \nju@setup@pdfinfo
626
    \begin{center} {\LARGE \ifnju@chinese\nju@ctitle\else\nju@etitle\fi}
627
    \end{center}
628
    \hspace*{\fill}
629
    \ifnju@chinese
630
      \nju@author@title\nju@title@sep\CJKunderline{\nju@cauthor}
631
    \else
632
      \nju@eng@author@title\nju@eng@title@sep\underline{\nju@eauthor}
633
    \fi
634
    \hspace*{\fill}
635
    \ifx\nju@stdid\@empty\relax
636
    \else
637
      \ifnju@chinese
638
        \nju@studentid@title\nju@title@sep\CJKunderline{\nju@stdid}
639
      \else
640
        \nju@eng@studentid@title\nju@eng@title@sep\underline{\nju@stdid}
641
      \fi
642
    \fi
643
    \hspace*{\fill}
644
    \ifnju@chinese
645
      \nju@date@title\nju@title@sep\CJKunderline{\today}
646
647
      \nju@eng@date@title\nju@eng@title@sep\CJKunderline{\nju@edate}
648
    \fi
649
    \hspace*{\left\{ \right\} }
650
651 }
    别样封面
```

```
652 \newcommand{\maketitlepage}{
     \nju@setup@pdfinfo
     \begin{titlepage}
654
       \begin{center}
655
       \ifx\nju@esubsubtitle\@empty\relax {\LARGE\sffamily\scshape\ifnju@chinese\nju@csubsubtitle\else\n
656
657
       {\LARGE\sffamily\scshape \ifnju@chinese\nju@csubsubtitle\else\nju@esubsubtitle\fi}\\[1.5cm]
658
       \fi
660 {\Large\sffamily\scshape \ifnju@chinese\nju@csubtitle\else\nju@esubtitle\fi}\\
       \rule{\linewidth}{0.5mm} \\[0.4cm]
662 {\huge\sffamily\bfseries \ifnju@chinese\nju@ctitle\else\nju@etitle\fi}\\
663 \rule{\linewidth}{0.5mm} \\[1.5cm]
665 \begin{center}
666 \begin{tabular}{@{\hspace{0.5cm}}l@{\hspace{0.5cm}}l}
667 \nju@eauthor & \nju@stdid\\
668 \end{tabular}
669 \end{center}
670 \vfill
671 {\large \nju@edate}
       \end{center}
       \ifnju@right\cleardoublepage\else\clearpage\fi
673
674 \end{titlepage}
675 }
题名使用一号黑体字,一行写不下时可分两行写,并采用 1.25 倍行距。申请学位的学科门类: 小
二号宋体字。中文封面页边距:上-6.0厘米,下-5.5厘米,左-4.0厘米,右-4.0厘米,装订线0
厘米;
676 \newcommand\nju@underline[2][6em]{\hskip1pt\underline{\hb@xt@ #1{\hss#2\hss}}\hskip3pt}
677 \newlength{\nju@title@width}
678\ifxetex % todo: ugly codes
679 \newcommand{\nju@put@title}[2][\nju@title@width]{%
     \begin{CJKfilltwosides}[b]{#1}#2\end{CJKfilltwosides}}
680
681 \else
     \newcommand{\nju@put@title}[2][\nju@title@width]{%
     \begin{CJKfilltwosides}{#1}#2\end{CJKfilltwosides}}
683
684 \ fi
685 \newcommand{\nju@first@titlepage}{
     \begin{center}
686
       \vspace*{-1.6cm}
687
       \parbox[b][2.4cm][t]{\textwidth}{%
688
689
         \rule{1cm}{0cm}}
         \vskip0.65cm
690
         {\includegraphics[width=0.3\textwidth]{njuname0.pdf}}
691
```

封面第一页

\nju@first@titlepage

{\xiaochu\heiti\ziju{0.5}\textbf\nju@csubtitle}

\par\vskip1.5cm

692

693

```
\vskip2.2cm\hskip0.8cm
694
         \noindent\heiti\xiaoer\nju@title@pre
695
         \parbox[t]{12cm}{%
696
        \ignorespaces\yihao[1.51]%
697
         \renewcommand{\CJKunderlinebasesep}{0.25cm}%
698
         \renewcommand{\ULthickness}{1.3pt}%
699
        \ifxetex
700
           \xeCJKsetup{underline/format=\color{black}}%
701
702
        \else
           \def\CJKunderlinecolor{\color{black}}%
703
704
        \fi
        \centering\CJKunderline*{\nju@ctitle}
705
706
      }%
707
         \vskip1.3cm
708
    作者及导师信息部分使用三号仿宋字
         \vskip0.75cm
709
        \ifx\nju@cassosupervisor\@empty%
710
           \def\nju@tempa{7.15cm}
711
        \else%
712
           \def\nju@tempa{8.15cm}
713
        \fi%
714
715
        \parbox[t][\nju@tempa][t]{\textwidth}{%
           {\fangsong\sanhao[1.95]%
716
            \hspace*{1.9cm}
717
718
            \setlength{\nju@title@width}{4em}
            \setlength{\extrarowheight}{6pt}
719
            \ifxetex % todo: ugly codes
720
              \begin{tabular}{p{\nju@title@width}@{}l@{\extracolsep{8pt}}l}
721
            \else
722
              \begin{tabular}{p{\nju@title@width}l@{}l}
723
            \fi
724
                \nju@put@title{\nju@department@title} & \nju@title@sep
725
                  & \nju@cdepartment\\
726
                \nju@put@title{\nju@major@title}
                                                        & \nju@title@sep
727
                  & \nju@cmajor\\
728
                \nju@put@title{\nju@author@title}
                                                        & \nju@title@sep
729
                  & \nju@cauthor \\
730
                \nju@put@title{\nju@supervisor@title} & \nju@title@sep
731
                  & \nju@csupervisor\\
732
                \ifx\nju@cassosupervisor\@empty\else%
733
                  \nju@put@title{\nju@assosuper@title} & \nju@title@sep
734
                  & \nju@cassosupervisor\\
735
                \fi
736
              \end{tabular}
737
738
          }}
```

3.9 附加页面 实现细节

论文成文打印的日期,用三号宋体汉字,不用阿拉伯数字本科:论文成文打印的日期用阿拉 伯数字,采用小四号宋体

```
\begin{center}
739
          {\vskip-1.0cm\xiaosi
740
741
            \songti\nju@cdate}
        \end{center}
742
       \end{center}} % end of titlepage
743
```

英文封面

\nju@engcover

```
744 \newcommand{\nju@engcover}{%
     \begin{center}
 745
        \vspace*{-5pt}
 746
 747
        \parbox[t][5.2cm][t]{\paperwidth-7.2cm}{
          \renewcommand{\baselinestretch}{1.5}
 748
         \begin{center}
 749
            \erhao[1.1]\bfseries\sffamily\nju@etitle%
 750
          \end{center}}
 751
        \parbox[t][][b]{\paperwidth-7.2cm}{
 752
          \renewcommand{\baselinestretch}{1.3}
 753
          \begin{center}
 754
            \sin \frac{y}{100} 
 755
            \bfseries\nju@eauthor%
 756
            \ifx\nju@emajor\empty\relax\else
 757
              \(\c) (~\nju@emajor~)%
 758
            \fi
 759
         \end{center}}
 760
        \par\vspace{0.9cm}
 761
 762
        \parbox[t][2.1cm][t]{\paperwidth-7.2cm}{
          \renewcommand{\baselinestretch}{1.2}
 763
         \xiaosan\centering
 764
         \begin{tabular}{rl}
 765
            Supervisor : & \nju@esupervisor\\
 766
            \ifx\nju@eassosupervisor\@empty
 767
              \else Associate Supervisor : & \nju@eassosupervisor\\\fi
 768
            \ifx\nju@ecosupervisor\@empty
 769
 770
              \else Cooperate Supervisor : & \nju@ecosupervisor\\\fi
         \end{tabular}}
 771
        \parbox[t][2cm][b]{\paperwidth-7.2cm}{
 772
 773
        \begin{center}
         \sanhao\bfseries\sffamily\nju@edate
 774
        \end{center}}
     \end{center}}
生成封面总命令。
```

\makecover

777 \def\makecover{%

```
\nju@setup@pdfinfo\nju@makecover}
778
779 \def\nju@setup@pdfinfo{%
     \ifnju@chinese
780
        \hypersetup{
781
 782
         pdftitle
                      = \nju@ctitle,
         pdfauthor
                      = \nju@cauthor,
783
         pdfsubject = \nju@cdegree,
784
         pdfkeywords = \nju@ckeywords,
785
       }%
786
     \else
787
 788
       \hypersetup{
         pdftitle
                      = \nju@etitle,
 789
         pdfauthor
                      = \nju@eauthor,
790
         pdfsubject = \nju@edegree,
791
         pdfkeywords = \nju@ekeywords,
792
       }%
793
     \fi
 794
     \hypersetup{
795
       pdfcreator={\njurepo-v\version}}}
796
797 \NewDocumentCommand{\nju@makecover}{o}{
     \phantomsection
798
     \pdfbookmark[-1]{\nju@ctitle}{ctitle}
799
     \normalsize%
800
     \begin{titlepage}
 801
       \ifnju@chinese
802
         \nju@first@titlepage
803
       \else
 804
805
         \nju@engcover
       \fi
806
       \ifnju@right\cleardoublepage\else\clearpage\fi
 807
808
     \end{titlepage}
809 }
 810 \newcommand{\makeabstract}{
     \normalsize
811
     \nju@makeabstract
812
     \let\@tabular\nju@tabular
 813
814 }
3.9.2 摘要
排版关键字。
815 \newbox\nju@kw
816 \newcommand\nju@put@keywords[2]{%
     \begingroup
817
        \setbox\nju@kw=\hbox{#1}
818
```

\nju@put@keywords

\indent%

819

```
\box\nju@kw#2\par
                  820
                       \endgroup}
                  中文摘要部分的标题为"摘要",用黑体三号字。
\nju@makeabstract
                  822 \newcommand{\nju@makeabstract}{%
                      \clearpage
                  823
                  824
                      \pagestyle{nju@plain}
                      \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,标点
                  符号一律用中文输入状态下的标点符号。
                       \ifnju@chinese
                         \nju@setchinese
                  827
                         \nju@chapter*[]{\cabstractname} % no tocline
                  828
                        \nju@cabstract
                  829
                        \vskip12bp
                  830
                        \nju@put@keywords{\textbf\nju@ckeywords@title}{\nju@ckeywords}
                  831
                  832
                       \else
                       \nju@setenglish
                  833
                         \nju@chapter*[]{\eabstractname} % no tocline
                  834
                  835
                        \nju@eabstract
                         \vskip12bp
                  836
                         \nju@put@keywords{%
                  837
                          \textbf{Key Words:\enskip}}{\nju@ekeywords}%
                  838
                  839
                       \fi
                       \nju@setdefaultlanguage
                  840
                  841 }
                       主要符号表
                  3.9.3
                 主要符号对照表。
      denotation
                  842\ifnju@chinese
                      \newcommand\nju@denotation@name{主要符号对照表}
                  844 \else
                       \newcommand\nju@denotation@name{Nomenclature}
                  846\fi
                  847 \newenvironment{denotation}[1][2.5cm]{%
                       \nju@chapter*[]{\nju@denotation@name} % no tocline
                      \vskip-30bp\xiaosi[1.6]\begin{nju@denotation}[labelwidth=#1]
                  849
                  850 } {%
                       \end{nju@denotation}
                  851
```

852 }

855

nosep,

853 \newlist{nju@denotation}{description}{1}

854\setlist[nju@denotation]{%

font=\normalfont,

```
align=left,

leftmargin=!, % sum of the following 3 lengths

labelindent=0pt,

labelwidth=2.5cm,

labelsep*=0.5cm,

itemindent=0pt,

863 }
```

3.9.4 致谢与声明

acknowledgement

支持扫描文件替换。

```
864 \ifnju@chinese
865 \newcommand\nju@ack@name{致\hspace{\ccwd} 谢}
866 \else
867 \newcommand\nju@ack@name{Acknowledgments}
868 \fi
869 \newcommand\nju@declarename{声\hspace{\ccwd} 明}
870 \newcommand{\nju@declaretext}{本人郑重声明: 所呈交的学位论文,是本人在导师指导下
871 ,独立进行研究工作所取得的成果。尽我所知,除文中已经注明引用的内容外,本学位论
872 文的研究成果不包含任何他人享有著作权的内容。对本论文所涉及的研究工作做出贡献的
873 其他个人和集体,均已在文中以明确方式标明。}
874 \newcommand{\nju@signature}{签\hspace{1em} 名: }
875 \newcommand{\nju@backdate}{日\hspace{1em} 期: }
```

\cleardoublepage,使新开章节的页码到达正确的状态。否则会因为 \addcontentsline 在 chapter 之前而导致目录页码错误。定义致谢与声明环境。

```
876 \NewDocumentEnvironment{acknowledgement}{o}{%
      \nju@chapter*{\nju@ack@name}
877
878
   }
    声明部分
879
880
      \ifnju@english\relax\else%
        \IfNoValueTF{#1}{%
881
          \nju@chapter*{\nju@declarename}
882
           \par{\xiaosi\parindent2em\nju@declaretext}\vskip2cm
883
          {\xiaosi\hfill\nju@signature\nju@underline[2.5cm]\relax%
884
            \nju@backdate\nju@underline[2.5cm]\relax}%
885
886
          \includepdf[pagecommand={\thispagestyle{nju@empty}%
887
             \phantomsection\addcontentsline{toc}{chapter}{\nju@declarename}%
888
          }]{#1}%
889
        }%
890
      \fi
891
892
   }
```

3.10 参考文献 3 实现细节

3.9.5 图表索引

```
定义图表以及公式目录样式。
  \listoffigures
 \listoffigures*
                  893 \def\nju@starttoc#1{% #1: float type, prepend type name in \listof*** entry.
                     \let\oldnumberline\numberline
   \listoftables
                 894
                     \def\numberline##1{\oldnumberline{\csname #1name\endcsname\hskip.4em ##1}}
                  895
  \listoftables*
                     \@starttoc{\csname ext@#1\endcsname}
                  896
                     \let\numberline\oldnumberline}
                  897
                  898 \def\nju@listof#1{% #1: float type
                     \@ifstar
                        {\nju@chapter*[]{\csname list#1name\endcsname}\nju@starttoc{#1}}
                  900
                        {\nju@chapter*{\csname list#1name\endcsname}\nju@starttoc{#1}}}
                  901
                  902 \renewcommand\listoffigures{\nju@listof{figure}}
                  903 \renewcommand*\l@figure{\addvspace{6bp}\@dottedtocline{1}{0em}{4em}}
                  904\renewcommand\listoftables{\nju@listof{table}}
                  905 \let\l@table\l@figure
                 本命令只是为了生成公式列表,所以这个 caption 是假的。如果要编号最好用 equation 环境,如
     \equcaption
                 果是其它编号环境,请手动添加\equcaption。用法如下:
                     \equcaption{\(\langle counter \rangle\)}
                     {〈counter〉} 指定出现在索引中的编号,一般取 \theequation,如果你是用 amsmath 的 \tag,
                 那么默认是\tag的参数;除此之外可能需要你手工指定。
                 906 \def\ext@equation{loe}
                  907 \def\equcaption#1{%
                     \addcontentsline{\ext@equation}{equation}%
                                    {\protect\numberline{#1}}}
                  909
 \listofequations
                 LYTEX 默认没有公式索引,此处定义自己的 \listofequations。
\listofequations*
                 910 \newcommand\listofequations{\nju@listof{equation}}
                 911 \let\l@equation\l@figure
                 3.10 参考文献
     \inlinecite 依赖于 natbib 宏包,修改其中的命令。旧命令 \onlinecite 依然可用。
                  912 \newcommand\bibstyle@inline{\bibpunct{[]}{]}{,}{n}{,}}
                  913 \DeclareRobustCommand\inlinecite{\@inlinecite}
                  914 \def\@inlinecite#1{\begingroup\let\@cite\NAT@citenum\citep{#1}\endgroup}
                  915 \let\onlinecite\inlinecite
                     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。
                     复用 natbib 的 thebibliography 环境,调整距离。
                  916 \renewcommand\bibsection{\nju@chapter*{\bibname}}
                  917 \renewcommand\bibfont{\wuhao[1.5]}
                  918\setlength\bibhang{2\ccwd}
                  919 \addtolength{\bibsep}{-0.7em}
```

3.10 参考文献 3 实现细节

```
920 \setlength{\labelsep}{0.4em}
921 \def\@biblabel#1{[#1]\hfill}
    两种引用样式:
922 \expandafter\newcommand\csname bibstyle@numeric\endcsname{%
923 \bibpunct{[]{]}{,}{s}{,}{\textsuperscript{,}}}
924\expandafter\newcommand\csname bibstyle@author-year\endcsname{%
925 \bibpunct{(){)}{;}{a}{,}{,}}
    下面修改 natbib 的引用格式,主要是将页码写在上标位置。 numeric 模式的 \citet 的页码:
926 \patchcmd\NAT@citexnum{%
   \@ifnum{\NAT@ctype=\z@}{%
928
      \if*#2*\else\NAT@cmt#2\fi
    }{}%
929
   \NAT@mbox{\NAT@@close}%
930
931 } {%
   \NAT@mbox{\NAT@@close}%
932
    \@ifnum{\NAT@ctype=\z@}{%
933
      \if*#2*\else\textsuperscript{#2}\fi
935 }{}%
936 }{}{}
    Numeric 模式的 \citep 的页码:
937 \renewcommand\NAT@citesuper[3]{\ifNAT@swa
   \if*#2*\else#2\NAT@spacechar\fi
939 \unskip\kern\p@\textsuperscript{\NAT@@open#1\NAT@@close\if*#3*\else#3\fi}%
     \else #1\fi\endgroup}
940
    Author-year 模式的 \citet 的页码:
941 \patchcmd{\NAT@citex}{%
942 \if*#2*\else\NAT@cmt#2\fi
943 \if\relax\NAT@date\relax\else\NAT@@close\fi
944 } {%
945 \if\relax\NAT@date\relax\else\NAT@@close\fi
946 \if*#2*\else\textsuperscript{#2}\fi
947 } { } { }
    Author-year 模式的 \citep 的页码:
948 \renewcommand\NAT@citesuper[3] {\ifNAT@swa
949 \if*#2*\else#2\NAT@spacechar\fi
950 \unskip\kern\p@\textsuperscript{\NAT@@open#1\NAT@@close\if*#3*\else#3\fi}%
     \else #1\fi\endgroup}
    在顺序编码制下, natbib 只有在三个以上连续文献引用才会使用连接号, 这里修改为允许两
个引用使用连接号。
952 \patchcmd{\NAT@citexnum}{%
   \ifx\NAT@last@yr\relax
953
      \def@NAT@last@yr{\@citea}%
```

955

\else

3.11 附录 3 实现细节

```
\def@NAT@last@yr{--\NAT@penalty}%
          956
              \fi
          957
          958 } {%
          959 \def@NAT@last@yr{-\NAT@penalty}%
          960 } { } { }
         3.11 附录
appendix 主要给本科做外文翻译用。
          961 \let\nju@appendix\appendix
          962 \renewenvironment { appendix } {%
          963 \let\title\nju@appendix@title
             \nju@appendix}{%
          965 \let\title\@gobble}
 \title 本科外文翻译文章的标题,用法: \title{(资料标题)}。这个命令只能在附录环境下使用。
          966 \let\title\@gobble
          967 \newcommand{\nju@appendix@title}[1]{%
              \begin{center}
          968
          969
                \xiaosi[1.667] #1
              \end{center}}
          970
         外文资料的参考文用宋体五号字,取固定行距 17pt,段前后 3pt。
          971 \newlist{translationbib}{enumerate}{1}
          972\setlist[translationbib]{label=[\arabic*],align=left,nosep,itemsep=6bp,
              leftmargin=10mm,labelsep=!,before=\vspace{0.5\baselineskip}\wuhao[1.3]}
         3.12 代码
          974 \RequirePackage{xcolor}
          975 \definecolor{codegreen}{rgb}{0,0.6,0}
          976 \definecolor{codegray}{rgb}{0.5,0.5,0.5}
          977 \definecolor{codepurple}{rgb}{0.58,0,0.82}
          978 \definecolor{backcolour}{rgb}{0.95,0.95,0.92}
          979 \newcommand{\red}[1]{\textcolor{red}{#1}}
          980 \newcommand{\redoverlay}[2]{\textcolor<#2>{red}{#1}}
          981 \newcommand{\green}[1]{\textcolor{green}{#1}}
          982 \newcommand{\greenoverlay}[2]{\textcolor<#2>{green}{#1}}
          983 \newcommand{\blue}[1]{\textcolor{blue}{#1}}
          984 \newcommand{\blueoverlay}[2]{\textcolor<#2>{blue}{#1}}
          985 \newcommand{\purple}[1]{\textcolor{purple}{#1}}
          986 \newcommand{\cyan}[1]{\textcolor{cyan}{#1}}
          987 \newcommand{\teal}[1]{\textcolor{teal}{#1}}
          988 \RequirePackage{verbatim}
          989 \RequirePackage{algorithm}
```

translationbib

这是边注

990 \RequirePackage{algpseudocode}

3.12 代码 3 实现细节

```
991 \newcommand{\pseduo}[2]{
  992 \begin{algorithm}
  993 \caption{\textsc{#1}}
  994 \label{alg:#1}
  995 \begin{algorithmic}[1]
  996 #2
  997 \end{algorithmic}
  998 \end{algorithm}
  999 }
1000 \RequirePackage{listings}
1001 \lstdefinestyle{lstStyleBase}{%
                 basicstyle=\small\ttfamily,
1002
1003
                 aboveskip=\medskipamount,
                 belowskip=\medskipamount,
1004
                 lineskip=0pt,
1005
                 boxpos=c,
1006
1007
                 showlines=false,
                 extendedchars=true,
1008
1009
                 upquote=true,
                 tabsize=2,
1010
1011
                 showtabs=false,
1012
                 showspaces=false,
                 showstringspaces=false,
1013
                 numbers=none,
1014
                 linewidth=\linewidth,
1015
                 xleftmargin=4pt,
1016
1017
                 xrightmargin=0pt,
1018
                 resetmargins=false,
1019
                 breaklines=true,
                 breakatwhitespace=false,
1020
1021
                 breakindent=0pt,
                 breakautoindent=true,
1022
1023
                 columns=flexible,
                 keepspaces=true,
1024
                 gobble=2,
1025
                 framesep=3pt,
1026
                 rulesep=1pt,
1027
                 framerule=1pt,
1028
                 backgroundcolor=\color{gray!5},
1029
1030
                 stringstyle=\color{green!40!black!100},
                 keywordstyle=\bfseries\color{blue!50!black},
1031
                 commentstyle=\slshape\color{black!60}
1032
1033 }
1034
1035 \newtcblisting{commandshell}{colback=black,colupper=white,colframe=yellow!75!black, listing only,listing only,listing
1036 every listing line={\textcolor{red}{\small\ttfamily\bfseries root \$> }}}
```

3.12 代码 3 实现细节

```
1037
1038 \lstdefinestyle{lstStyleShell}{%
      style=lstStyleBase,
1039
      frame=1,
1040
1041
      rulecolor=\color{purple},
      language=bash}
1042
1043
1044 \lstdefinestyle{lstStyleLaTeX}{%
1045
      style=lstStyleBase,
      frame=1.
1046
1047
      rulecolor=\color{violet},
      language=[LaTeX]TeX}
1048
1049
1050 \lstdefinestyle{lstStylecdisplay}{%
     style=lstStyleBase,
1052 frame=tb.
1053 rulecolor=\color{cyan},
1054 keywordstyle=\color{magenta}\bfseries\ttfamily,
1055 commentstyle=\color{codegreen}\ttfamily,
1056 stringstyle=\color{codepurple}\ttfamily\sffamily,
1057 backgroundcolor=\color{backcolour},
1058 captionpos=b,
1059 numbers=left.
1060 numberstyle=\footnotesize\color{codegray},
1061 stepnumber=1.
     numbersep=5pt,
1062
     language=C
1063
1064 }
1065
1066 \lstdefinestyle{lstStylecpseudo}{%
1067
    style=lstStyleBase,
1068 frame=none,
1069 keywordstyle=\color{magenta}\bfseries\ttfamily,
1070 commentstyle=\color{codegreen}\ttfamily,
1071 stringstyle=\color{codepurple}\ttfamily\sffamily,
1072 captionpos=b,
1073 numbers=left,
1074 numberstyle=\footnotesize\color{codegray},
1075 stepnumber=1,
1076
     numbersep=5pt,
     language=C
1077
1078 }
1079
1080 \lstdefinestyle{lstStylecplus}{%
    style=lstStyleBase,
1081
    frame=1,
1082
```

```
rulecolor=\color{blue},
1083
     language=C++
1084
1085 }
1086
1087 \lstdefinestyle{lstStyleverilog}{%
     style=lstStyleBase,
1088
     frame=1,
1089
     rulecolor=\color{brown},
1091
     language=verilog
1092 }
1093
1094 \lstdefinestyle{lstStylepython}{%
     style=lstStyleBase,
1095
     frame=1,
1096
     rulecolor=\color{pink},
1097
     language=python
1098
1099 }
1101 \lstnewenvironment{code}{\lstset{style=lstStyleBase}}{}
1102 \lstnewenvironment{latex}{\lstset{style=lstStyleLaTeX}}{}
1103 \lstnewenvironment{shell}{\lstset{style=lstStyleShell}}{}
1104 \lstnewenvironment{cdisplay}{\lstset{style=lstStylecdisplay}}{}
1105 \lstnewenvironment{cplus}{\lstset{style=lstStylecplus}}{}
1106 \lstnewenvironment{verilog}{\lstset{style=lstStyleverilog}}{}
1107 \lstnewenvironment{python}{\lstset{style=lstStylepython}}{}
{\tt 1108 \label{lambda} \{ lstset \{ style = lstStylecpseudo \} \} \{ \} }
```

3.13 快速插入图片或图表

```
1109 \newcommand{\figpf}[2]{
1110 \begin{figure}[H]
1111 \centering
1112 \includegraphics[#1]{figs/#2}
1113 \end{figure}
1114 }
1115
1117 \newcommand{\figpfc}[3]{
1118 \begin{figure}[htbp]
1119 \centering
1120 \includegraphics[#1]{figs/#2}
1121 \caption{#3}
1122 \label{fig:#2}
1123 \end{figure}
1124 }
1126 \newcommand{\tabpcc}[3]{
```

3.14 结束部分 3 实现细节

```
1127 \begin{table}[H]
1128 \centering
1129 \begin{tabular}{|*{#1}{c|}}
1130 \toprule
1131 #2\\
1132 \bottomrule
1133 \end{tabular}
1134 \caption{#3}
1135 \label{form: #3}
1136 \end{table}}
1138 \newcommand{\tabpc}[2]{
1139 \begin{table}[H]
1140 \centering
1141 \begin{tabular}{|*{#1}{c|}}
1142 \toprule
1143 #2\\
1144 \bottomrule
1145 \end{tabular}
1146 \end{table}}
1147 \newcommand{\tnl}{\tabularnewline\midrule}
3.14 结束部分
1148 \def\cmd#1{\cs{\expandafter\cmd@to@cs\string#1}}
{\tt 1149 \backslash def\backslash cmd@to@cs\#1\#2\{\backslash char\backslash number`\#2\backslash relax\}}
{\tt 1150 \backslash DeclareRobustCommand \backslash cs[1] \{ \backslash texttt \{ \backslash thar' \backslash \#1 \} \}}
1151
1152 \newcommand* { \meta} [1] { {%
1153 \ensuremath{\langle}\rmfamily\itshape#1\/\ensuremath{\rangle}}}
1154 \providecommand\marg[1] {%
1155 {\ttfamily\char'\{}\meta{#1}{\ttfamily\char'\}}}
1156 \providecommand\oarg[1]{%
1157 {\ttfamily[}\meta{#1}{\ttfamily]}}
1158 \providecommand\parg[1]{%
    {\ttfamily(}\meta{#1}{\ttfamily)}}
1160 \providecommand\pkg[1]{{\sffamily#1}}
1161
1162
1163% 表格中支持跨行
1164 \RequirePackage{multirow}
1165 \RequirePackage{bbding,stmaryrd}
1166% 固定宽度的表格
1167 \RequirePackage{tabularx}
1168 \RequirePackage{syntonly}
1169 \RequirePackage{dirtree}
1170% 表格中的反斜线
```

```
1171 \RequirePackage{diagbox}
1172 \newcommand{\blankpage}{
1173 \clearpage
1174 \begin{titlepage}
1175 \null\vfil
1176 \begin{center}
1177 \textit{This page intentionally left blank.}
1178 \end{center}
1179 \end{titlepage}
1180 }\RequirePackage{syntonly}
1181 \newcommand{\rmnum}[1]{\romannumeral #1}
1182 \newcommand{\Rmnum}[1]{\expandafter\@slowromancap\romannumeral #1@}
1183% 确定浮动对象的位置,可以使用 H, 强制将浮动对象放到这里(可能效果很差)
1184 \RequirePackage{makecell}
1185 \RequirePackage{physics}
1186 \RequirePackage{float}
1187 \RequirePackage{watermark}
1188 \RequirePackage{tikz,tikzducks}
1189 \usetikzlibrary{decorations.pathmorphing,graphs,calc}
1190 \ifnju@draft
1191 \AtEndOfClass{
1192 \watermark{%
1193 \parbox[b][\paperheight]{\paperwidth}{%
1194 \vfill
1195 \centering%
1196 \begin{tikzpicture}[remember picture,overlay]
1197\node [rotate=45,scale=10] at ($(current page.center) +(-1cm,1cm)$)
1198 {\textcolor[gray] {0.8} {DRAFT}};
1199 \node [rotate=45,scale=3] at ($(current page.center) +(1cm,-1cm)$)
1200 {\textcolor[gray]{0.75}{Compile time: \the\year - \the\month - \the\day}};
1201 \end{tikzpicture}%
1202 \vfill
1203 }
1204 }
1205 }
1206 \fi
1208 \AtEndOfClass{\sloppy}
</cls>
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