

# The nputhesis class\*

Zongze Yang

yangzongze@gmail.com

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## 第 1 节 简介

## 第 2 节 使用方法

### 2.1 加载文类

加载 nputhesis 文档类

```
\documentclass[twoside, UTF8, phd, AutoFakeBold]{nputhesis}
```

若需生成盲评版本, 添加选项 dbr 即可, 如

\*This document corresponds to nputhesis v0.6.3, dated 2020/02/18.

```
\documentclass[twoside, UTF8, phd, dbr, AutoFakeBold]{nputhesis}
```

## 2.2 加载常用宏包

```
\usepackage{lipsum}
```

## 2.3 参考文献

推荐使用 biblatex 处理参考文献. 参考文献格式使用 gb7714-2015, 其详细信息请参考 <https://github.com/hushidong/biblatex-gb7714-2015>. 宏包 biblatex-gb7714-2015 已包含在 TeXLive 和 MikTeX 中. 使用如下命令载入 biblatex 宏包即可.

```
\usepackage[backend=biber,  
             style=gb7714-2015, maxbibnames=3,minbibnames=3,  
             gbnamefmt=givenahead,  
             doi=false,  
             url=false,  
             %  
             gbpub=false  
]{biblatex}
```

上面的选项 gbnamefmt 需要使用 v1.0k 以上版本的 biblatex-gb7714-2015. 如果宏包版本不能满足, 可以注释掉选项 gbnamefmt=givenahead.

然后使用 addbibresource 添加参考文献文件 myrefs.bib.

```
\addbibresource{myrefs.bib}
```

## 2.4 变量设置

设置学校编号, 分类号, 题目, 姓名等信息

```
\schoolno{10699}  
\classno{0.242}  
\secretlevel{公开}  
\authorno{0000999999}  
\title[LaTeX\ Template of NPU Thesis]{西工大硕博学位论文 LaTeX 模板}  
\author[\dbr{San Zhang}]{\dbr{张三}}  
\major[Philosophy in Mathematics]{数学}  
\supervisor[\dbr{Si Li}]{\dbr{李四}}  
\applydate[April 2046]{2046~年~4~月}  
\support{本文研究得到某某基金(编号:XXXXXXX)资助。}
```

## 2.5 开始文档

使用 makecover 生成封面: 包括外封面和内封面, 然后用 frontmatter 分割封面和正文部分.

```
\begin{document}  
  \makecover  
  \frontmatter
```

## 2.6 摘要部分

中文摘要

```
\begin{abstract}
  本模板基本实现了西北工业大学硕博论文格式要求：封皮，页眉页脚，
  章节标题格式，参考文献格式等.
\begin{keywords}
  学位论文, \LaTeX\ 模板, 西工大
\end{keywords}
\end{abstract}
```

英文摘要

```
\begin{Abstract}
  We implement the class |nputhesis| for the thesis of NWPU.
\begin{Keywords}
  Thesis Template, \LaTeX, NPU
\end{Keywords}
\end{Abstract}
```

## 2.7 目录和符号表

```
\tableofcontents
\printnomenclature
```

正文中使用 `\nomenclature{<sym>}{<text explanation>}` 向符号表中添加内容.

## 2.8 正文部分

使用 `mainmatter` 开始正文.

```
\mainmatter
```

正文结构

```
\chapter{绪论}
\section{\TeX 和 \LaTeX 介绍}
\section{nputhesis 简介}
\chapter{基础知识}
\section{基本命令}
\section{宏包}
```

### 2.8.1 图与表

## 2.9 参考文献, 附录等

```
\backmatter
% 以下两种参考文献格式，根据实际宏包使用情况添加
\printbibliography           % biblatex 输出参考文献方式
% \bibliographystyle{gbt7714-2005} % 传统输出参考文献方式
% \bibliography{ref}           % 传统输出参考文献方式

% \Appendix % 如果有多个附录，可重复使用该命令，自动按字母编号.

\Thanks % 致谢

\Work
\papersection % 以下填写发表论文情况
```

```

\begin{npulist}
  \item {\bf \dbr{S. Zhang}}, \dbr{S. Li}. NPU 硕博学位论文
    \LaTeX\ 模板 [D]. 2019.
\end{npulist}

\researchsection % 以下填写参加科研情况
\begin{npulist}
  \item NPU \LaTeX 模板. 编号: 000000000, 参与.
  \item NPU \LaTeX 模板. 编号: 000000001, 参与.
  \item NPU \LaTeX 模板. 编号: 000000002, 参与.
\end{npulist}

```

## 2.10 结束文档

```

\statement
\end{document}

```

## 2.11 完整的例子

```

1 <*sample>
2 \documentclass[twoside, UTF8, phd, AutoFakeBold]{nputhesis}
3 \usepackage{lipsum}
4 \usepackage{filecontents}
5 \usepackage[backend=biber,
6             style=gb7714-2015, maxbibnames=3,minbibnames=3,
7             gbnamefmt=givenahead,
8             doi=false,
9             url=false,
10            ]{biblatex}
11 \begin{filecontents}{myrefs.bib}
12 @Book{Knuth1986,
13   Title           = {The \TeX book},
14   Author          = {Donald~Ervin Knuth},
15   Publisher       = {Addison-Wesley},
16   Year            = {1986}
17 }
18 @Book{Lamport1994,
19   Title           = {A Document Preparation System},
20   Author          = {Leslie Lamport},
21   Publisher       = {Addison-Wesley},
22   Year            = {1994}
23 }
24
25 @Book{Liu2013,
26   Title           = {\LaTeX 入门},
27   Author          = {刘海洋},
28   Publisher       = {电子工业出版社},
29   Year            = {2013}
30 }
31 \end{filecontents}
32 \addbibresource{myrefs.bib}
33 \schoolno{10699}
34 \classno{0.242}
35 \secretlevel{公开}
36 \authorno{0000999999}
37 \title[\LaTeX\ Template of NPU Thesis]{西工大硕博学位论文 \LaTeX 模板}
38 \author[\dbr{San Zhang}]{\dbr{张三}}
39 \major[Philosophy in Mathematics]{数学}
40 \supervisor[\dbr{Si Li}]{\dbr{李四}}
41 \applydate[April 2046]{2046~年~4~月}
42 \support{本研究得到某某基金(编号:XXXXXXX)资助。}
43 \begin{document}
44 \makecover
45 \frontmatter

```

```

46
47 \begin{abstract}
48 本模板基本实现了西北工业大学硕博论文格式要求：封皮，页眉页脚，
49 章节标题格式，参考文献格式等.
50 \begin{keywords}
51 学位论文, \LaTeX\ 模板, 西工大
52 \end{keywords}
53 \end{abstract}
54 \begin{Abstract}
55 We implement the class |nputhesis| for the thesis of NPU.
56 \begin{Keywords}
57 Thesis Template, \LaTeX, NPU
58 \end{Keywords}
59 \end{Abstract}
60
61 \tableofcontents
62 \printnomenclature
63
64 \mainmatter
65
66 \chapter{绪论}
67 \section{\TeX 和 \LaTeX 介绍}
68 \section{nputhesis 简介}
69 \chapter{基础知识}
70 \section{基本命令}
71 \section{宏包}
72
73 \backmatter
74
75 \printbibliography % biblatex 输出参考文献方式
76
77 \Thanks % 致谢
78
79 \Work
80 \papersection % 以下填写发表论文情况
81
82 \begin{npulist}
83 \item {\bf \dbr{S. Zhang}}, \dbr{S. Li}. NPU 硕博学位论文
84 \LaTeX\ 模板 [D]. 2019.
85 \end{npulist}
86
87 \researchsection % 以下填写参加科研情况
88 \begin{npulist}
89 \item NPU \LaTeX 模板. 编号: 000000000, 参与.
90 \item NPU \LaTeX 模板. 编号: 000000001, 参与.
91 \item NPU \LaTeX 模板. 编号: 000000002, 参与.
92 \end{npulist}
93 \statement
94 \end{document}
95 </sample>

```

## 第3节 安装

从 github 下载的压缩包已所有文件, 直接解压即可使用. 下面介绍从 dtx 文件生成相关文件的过程.

### 3.1 编译 nputhesis.dtx

运行如下命令即可得到所有文件

```
xelatex nputhesis.dtx
```

但是这样生成文档 nputhesis.pdf 中没有索引等信息, 因此需要进行多次编译. 下面给出生成 pdf 文件的两种方式.

### 3.1.1 方法一

进入 `nputhesis.dtx` 所在文件夹, 依次运行下面命令.

```
xelatex nputhesis.dtx
makeindex -s gglo.ist -o nputhesis.gls nputhesis.glo
makeindex -s gind.ist -o nputhesis.ind nputhesis.idx
xelatex nputhesis.dtx
xelatex nputhesis.dtx
del nputhesis.gls nputhesis.glo nputhesis.ind nputhesis.idx
del nputhesis.ilg nputhesis.aux nputhesis.log nputhesis.toc
del nputhesis.hd nputhesis.out
```

### 3.1.2 方法二

使用 `latexmk` 进行编译. 首先, 进入 `nputhesis.dtx` 所在文件夹, 创建文件 `dtxrc` 内容如下:

```
@cus_dep_list = (@cus_dep_list, "glo gls 0 makegls");
sub makegls {
    system("makeindex -s gglo.ist -o $_[0].gls $_[0].glo"); }
$makeindex="makeindex -s gind.ist -o %D %S";
push @generated_exts, 'idx', 'ind', 'glo', 'gls', 'hd';
```

然后在该文件夹运行如下命令即可生成所需文件.

```
latexmk -xelatex nputhesis.dtx -r dtxrc
latexmk -c nputhesis.dtx -r dtxrc
```

## 第4节 代码实现

### 4.1 文档选项

使用布尔变量实现文档的选项设置

```
96 <*class>
97 \newif\if@npu@phd
98 \newif\if@npu@blankinfo
99 \newif\if@npu@dbr % for double-blind review
100 \def\set@npu@phd{\@npu@phdtrue}
101 \def\set@npu@ma{\@npu@phdfalse}
```

使用 `xkeyval` 声明文档选项

```
102 \RequirePackage{xkeyval}
```

声明选项 `blankinfo`, 用于控制是否现实空白页标识信息.

```
103 \DeclareOptionX{blankinfo}[false]{\csname @npu@blankinfo#1\endcsname}
```

声明选项 `thesistype`, 可选参数为 `phd` 和 `ma`, 用于选择文档类型: 博士论文还是硕士论文.

```
104 \DeclareOptionX{thesistype}[phd]{\csname set@npu@#1\endcsname}
```

声明选项 `phd` 和 `ma`, 要废齐的选项, 被 `thesistype` 代替, 请使用 `thesistype`.

```
105 \DeclareOptionX{phd}{\@npu@phdtrue}
```

```
106 \DeclareOptionX{ma}{\@npu@phdfalse}
```

声明选项 `dbr`, 用于生成盲评版本, 参考 `\dbr`.

```
107 \DeclareOptionX{dbr}[true]{\csname @npu@dbr#1\endcsname}
```

该类基于 `book` 类实现, 加载 `book` 文类.

```
108 \DeclareOptionX*{\PassOptionsToClass{\CurrentOption}{ctexbook}}
```

```
109 \ExecuteOptionsX{thesistype=phd}
```

```
110 \ExecuteOptionsX{dbr=false}
```

```
111 \ProcessOptionsX \relax
```

```
112 \LoadClass[heading=true,zihao=-4]{ctexbook}
```

## 4.2 使用的宏包

加载需要的宏包

```

113 \RequirePackage{geometry}
114 \RequirePackage{xcolor}
115 \RequirePackage{fancyhdr}
116 \RequirePackage{titletoc}
117 \RequirePackage{caption}
118 \RequirePackage{ulem}
119 \RequirePackage{amsthm}
120 \RequirePackage{amsmath}
121 \RequirePackage{amsfonts}
122 \RequirePackage{setspace}
123 \RequirePackage{longtable}
124 \RequirePackage{booktabs}
125 \RequirePackage{tabularx}
126 \RequirePackage{multirow}
127 \RequirePackage{graphicx}
128 % \RequirePackage[heading=true,zihao=-4]{ctex}
129 \RequirePackage{ifxetex}
130 \ifxetex
131   \setmainfont{Times New Roman}
132 \fi

```

## 4.3 盲评命令

当 dbr 选项开启, 即 dbr=true 时在文件中 \dbr 命令以隐藏作者相关信息, 使用命令 \dbr{张三} 将会使用黑框代替‘张三’的显示.

```

133 \newcommand\npu@replace[1]{\%
134   \setlength{\fboxsep}{0pt}\%
135   \colorbox{black}{\phantom{#1}}}%
136 \newcommand{\dbr}[1]{\if@npu@dbr \npu@replace{#1}\relax\else #1\fi}

```

## 4.4 设置页面版式格式

```

137 \geometry{paperwidth=210mm,paperheight=297mm,%
138   left=2.5cm,right=2.5cm,top=2.54cm,bottom=2.54cm}
139 \topmargin=-10.4mm
140 \headheight=17pt
141 \footskip=8mm
142 \headsep=5mm

```

页眉设置

```

143 \pagestyle{fancy}
144 % \renewcommand\chaptermark[1]{\markboth{%
145 %   \if@mainmatter%
146 %     %\ifnum\arabic{chapter}>0%
147 %       \arabic{chapter}\quad%
148 %     %\fi%
149 %   \fi#1}{}}
150 \fancyhf{}
151 \fancyhead[EC]{\songti\zihao{-5}\npu@rightmark}
152 \fancyhead[OC]{\songti\zihao{-5}\leftmark}
153 \fancyfoot[C]{\songti\zihao{5}\thepage}
154 \renewcommand{\headrule}{\%
155   \hrule width\headwidth height2.8pt \vspace{1pt}%
156   \hrule width\headwidth height0.8pt}
157 \fancypagestyle{plain}{\thispagestyle{fancy}}
158 \newcommand{\clearpagestyle}{\clearpage{\pagestyle{empty}\cleardoublepage}}

```

## 4.5 设置默认章节标题格式

```

159 \ifx\ctexset\undefined
160   \CTEXsetup[ % name={,}, number={\arabic{chapter}},% use default value
161     beforekip={0pt}, afterskip={20pt}]{chapter}

```

```

162 \CTEXsetup[nameformat={\heiti\zihao{3}\bf}]{chapter}
163 \CTEXsetup[titleformat={\heiti\zihao{3}}]{chapter}
164 \CTEXsetup[format={\heiti\zihao{4}}]{section}
165 \CTEXsetup[format={\heiti\zihao{-4}}]{subsection}
166 \else
167 \ctexset{
168   contentsname = {\npu@contents}
169 }
170 % title format of chapter
171 \ctexset{
172   % chapter/name={,}, % use default value in ctex
173   % chapter/number=\arabic{chapter}, % use default value in ctex
174   chapter/beforeskip={0pt},
175   chapter/afterskip={20pt},
176   chapter/format={\heiti\zihao{3}\centering}
177 }
178 % title format of section
179 \ctexset{
180   section/name={,},
181   % section/beforeskip={2ex plus .5ex minus .1ex},
182   % section/afterskip={1ex plus .1ex},
183   section/format={\heiti\zihao{4}}
184 }
185 % title format of subsection
186 \ctexset{
187   subsection/name={,},
188   % subsection/beforeskip={2ex plus .5ex minus .1ex},
189   % subsection/afterskip={1ex plus .1ex},
190   subsection/format={\heiti\zihao{-4}}
191 }
192 \ctexset{
193   subsubsection/name={,},
194   % subsubsection/beforeskip={1ex plus .3ex minus .1ex},
195   % subsubsection/afterskip={.5ex plus .1ex},
196   subsubsection/format={\heiti\zihao{-4}}
197 }
198 \ctexset{
199   paragraph/name={,},
200   % paragraph/beforeskip={1ex plus .3ex minus .1ex},
201   % paragraph/afterskip={.5ex plus .1ex},
202   paragraph/format={\heiti\zihao{-4}}
203 }
204 \ctexset{
205   subparagraph/name={,},
206   % subparagraph/beforeskip={1ex plus .3ex minus .1ex},
207   % subparagraph/afterskip={.5ex plus .1ex},
208   subparagraph/format={\heiti\zihao{-4}}
209 }
210 \fi

```

## 4.6 目录字体设置

```

211 \def\@contentfont{\songti\zihao{-4}}
212 \titlecontents{chapter}[0pt]{\@contentfont}
213   {\thecontentslabel\hspace{.5em}}{}
214   {\hspace{.5em}\titlerule*{.}\contentspage}
215 \titlecontents{section}[15pt]{\@contentfont}
216   {\thecontentslabel\quad}{}
217   {\hspace{.5em}\titlerule*{.}\contentspage}
218 \titlecontents{subsection}[30pt]{\@contentfont}
219   {\thecontentslabel\quad}{}
220   {\hspace{.5em}\titlerule*{.}\contentspage}

```

## 4.7 变量设置

定义变量,用于存储包括论文题目,作者,导师等信息.

```

221 \def\title{\@ifnextchar[\@title{\@title[]}}

```



```

222 \def\author{\ifnextchar[\@@author{\@@author[]}}
223 \def\major{\ifnextchar[\@@major{\@@major[]}}
224 \def\supervisor{\ifnextchar[\@@supervisor{\@@supervisor[]}}
225 \def\applydate{\ifnextchar[\@@applydate{\@@applydate[]}}
226 \def\@title[#1]#2{\def\@title@en{#1}\def\@title{#2}}
227 \def\@author[#1]#2{\def\@author@en{#1}\def\@author{#2}}
228 \def\@major[#1]#2{\def\@major@en{#1}\def\@major{#2}}
229 \def\@supervisor[#1]#2{\def\@supervisor@en{#1}\def\@supervisor{#2}}
230 \def\@applydate[#1]#2{\def\@applydate@en{#1}\def\@applydate{#2}}
231 \def\@title{}\def\@title@en{}
232 \def\@author{}\def\@author@en{}
233 \def\@major{}\def\@major@en{}
234 \def\@supervisor{}\def\@supervisor@en{}
235 \def\@applydate{}\def\@applydate@en{}
236 \def\npu@empty{}
237 \def\schoolno#1{\def\@schoolno{#1}}\def\@schoolno{}
238 \def\classno#1{\def\@classno{#1}}\def\@classno{}
239 \def\secretlevel#1{\def\@secretlevel{#1}}\def\@secretlevel{}
240 \def\authorno#1{\def\@authorno{#1}}\def\@authorno{}
241 \def\support#1{\def\@support{#1}}\def\@support{}
242 \if@npu@phd
243   \def\npu@degreename@en{Doctor}
244 \else
245   \def\npu@degreename@en{Master}
246 \fi

```

## 4.8 设置字体和行距

```

247 % \renewcommand{\normalsize}{\zihao{-4}}
248 \linespread{1.25}

```

## 4.9 封面

定义外封面

```

249 \def\makeoutercover{
250   \begin{titlepage}
251     \bfseries
252     \linespread{1.25}
253     \begin{center}
254       \hfill% default \bf font
255       \heiti\zihao{5}
256       \newlength{\max@length}
257       \settowidth{\max@length}{\npu@schoolno\npu@comma 2000000000}
258       \newlength{\name@length}
259       \settowidth{\name@length}{\npu@schoolno}
260       \begin{minipage}{\max@length}
261         \vskip.5cm
262         \renewcommand\arraystretch{1.2}
263         \begin{tabular}{|c|c|}\hline
264           \makebox[\name@length][s]{\npu@schoolno} & \@schoolno & \hline
265           \makebox[\name@length][s]{\npu@classno} & \@classno & \hline
266           \makebox[\name@length][s]{\npu@secretlevel}& \@secretlevel & \hline
267           \makebox[\name@length][s]{\npu@authorno} & \@authorno & \hline
268         \end{tabular}
269       \end{minipage}
270       \par\vspace{9cm}
271       \songti\zihao{2}
272       \begin{minipage}[t]{2cm}
273         \hfill\npu@title\hfill
274       \end{minipage}
275       %\hbox to 2.5cm{\hfill \npu@title}
276       \setbox123=\hbox{
277         \begin{minipage}[t]{12cm}
278           \begin{center}
279             \heiti\@title
280           \end{center}

```

```

281     \end{minipage} }
282     \setbox124=\hbox{
283     \begin{minipage}[t]{12cm}
284     \begin{center}
285     \uline{\hfill\quad\hfill}\\
286     \uline{\hfill\quad\hfill}\\
287     \end{center}
288     \end{minipage} }
289     \hskip-0.5cm
290     \copy123\kern-\wd123\box124
291     \zihao{3}
292     \par\vspace{2.5\baselineskip}
293     \begin{minipage}{5cm}
294     {\kaishu\npu@author} \uline{\hfill\@author\hfill}
295     \end{minipage}
296     \par\vspace{2.5\baselineskip}
297     \settowidth{\name@length}{\npu@applydate}
298     \begin{minipage}{12.5cm}
299     \noindent
300     \makebox[\name@length][s]{\npu@major}%
301     {\uline{\hfill{\@major}\hfill}} \par
302     \vspace{0.5\baselineskip}
303     \makebox[\name@length][s]{\npu@supervisor}%
304     {\uline{\hfill\@supervisor\hfill}} \par
305     \vspace{0.5\baselineskip}
306     \makebox[\name@length][s]{\npu@applydate}%
307     {\uline{\hfill\@applydate\hfill}} \par
308     \end{minipage}
309     \vspace{2\baselineskip}
310     \end{center}
311     \end{titlepage}
312     \clearpagestyle
313 }

```

定义内封面

```

314 \def\makeinnercover@zh{
315   \begin{titlepage}
316     \linespread{1.25}
317     \vspace*{2cm}
318     \begin{center}
319       \settowidth{\name@length}{\zihao{3}\npu@schoolname}
320       \divide\name@length by 12
321       \multiply\name@length by 17
322       \makebox[\name@length][s]{\zihao{3}\npu@schoolname}
323       \vskip5mm
324       \settowidth{\name@length}{\zihao{1}\npu@degree}
325       \divide\name@length by 12
326       \multiply\name@length by 17
327       \makebox[\name@length][s]{\zihao{1}\npu@degree}
328       \vskip5mm
329       \centerline{\zihao{4}\npu@degreeclass}
330       \vskip5cm
331       \zihao{2}
332       \begin{minipage}[t]{2.5cm}
333       \hfil\npu@title\npu@comma
334       \end{minipage}
335       \setbox123=\hbox{
336       \begin{minipage}[t]{11cm}
337       \begin{center}
338       \@title
339       \end{center}
340       \end{minipage}}
341       \setbox124=\hbox{
342       \begin{minipage}[t]{11cm}
343       \begin{center}
344       \uline{\hfill\quad\hfill}\\
345       \uline{\hfill\quad\hfill}\\

```

```

346         \end{center}
347     \end{minipage}}
348     \hskip-1cm
349     \copy123\kern-\wd123\box124
350     \par\vspace{4cm}
351     \zihao{3}
352     \settowidth{\name@length}{\npu@major}
353     \begin{minipage}{8cm}
354         \noindent
355         \makebox[\name@length][s]{\npu@author}\npucomma%
356         \uline{\hfill\@author\hfill} \par
357         \vspace{0.25\baselineskip}
358         \makebox[\name@length][s]{\npu@major}\npucomma%
359         \uline{\hfill\@major\hfill} \par
360         \vspace{0.25\baselineskip}
361         \makebox[\name@length][s]{\npu@supervisor}\npucomma%
362         \uline{\hfill\@supervisor\hfill}\par
363         \vspace{1\baselineskip}
364     \end{minipage}
365     \vspace{2\baselineskip}
366     \par\makebox[30mm]{\@applydate}\hfill
367 \end{center}
368 \end{titlepage}
369 \clearpagestyle
370 }

```

#### 定义英文封面

```

371 \def\makeinnercover@en{
372     \begin{titlepage}
373         \linespread{1.25}
374         \vspace*{1.5cm}
375         \zihao{3}
376         \begin{center}
377             {\bf
378                 \%Large
379                 \@title@en \\
380                 \vspace{3\baselineskip}
381                 \zihao{-3}
382                 By\\
383                 \ifx\@author@en\npu@empty\quad\else\@author@en\fi\\
384                 \vspace{1\baselineskip}
385                 Under the Supervision of Professor\\
386                 \ifx\@supervisor@en\npu@empty\quad\else\@supervisor@en\fi\\
387                 \%Large
388                 \vspace{4\baselineskip}
389                 A Dissertation Submitted to\\
390                 Northwestern Polytechnical University\\
391                 \vspace{1\baselineskip}
392                 In Partial Fulfillment of the Requirement\\
393                 for the Degree of\\
394                 \npu@degreename@en\ of \@major@en\\
395                 \vspace{4\baselineskip}
396                 Xi'an P. R. China\\
397                 \@applydate@en
398             }
399         \end{center}
400     \end{titlepage}
401     \clearpagestyle
402 }

```

#### 整合以上封面为一个命令 makecover

```

402 \def\makecover{\makeoutercover\makeinnercover@zh\makeinnercover@en}

```

#### 正文之前使用罗马数字编号

```

403 \let\npu@frontmatter\frontmatter
404 \def\frontmatter{\npu@frontmatter\pagenumbering{Roman}}

```

### 4.10 选项 blankinfo 的实现

重定义 cleardoublepage, 用于实现 blankinfo 选项的功能.

```

405 \def\cleardoublepage{\clearpage\if@twoside \ifodd\c@page\else
406   \hbox{}
407   \vspace*{\fill}
408   \begin{center}\Large
409     \if@npu@blankinfo
410       \textcolor{gray!60}{This Page Intentionally Left Blank!}
411     \fi
412   \end{center}
413   \vspace{\fill}
414   \thispagestyle{empty}
415   \newpage
416   \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

### 4.11 摘要环境

定义中英文摘要环境

```

417 \newenvironment{abstract}{%
418   \chapter{\npu@abstract}%\addcontentsline{toc}{chapter}{\npu@abstract}%
419   \newenvironment{keywords}{%
420     \vspace{2\baselineskip}\par\textbf{\npu@keywords\npu@comma}}{}
421   }{\vfill\zihao{5}\@support}
422
423 \newenvironment{Abstract}{%
424   \chapter{\npu@Abstract}%\addcontentsline{toc}{chapter}{\npu@Abstract}%
425   \newenvironment{Keywords}{%
426     \vspace{2\baselineskip}\par\textbf{\npu@Keywords\npu@comma}}{}{}

```

### 4.12 图表标题设置

```

427 \DeclareCaptionFont{song}{\songti\zihao{5}}
428 \captionsetup{labelsep=quad, font=song}
429 \captionsetup[figure]{aboveskip=10pt, belowskip=10pt}
430 \captionsetup[table]{aboveskip=10pt, belowskip=10pt}
431 \renewcommand\thetable{\arabic{chapter}-\arabic{table}}
432 \renewcommand\thefigure{\arabic{chapter}-\arabic{figure}}
433 \renewcommand\theequation{\arabic{chapter}-\arabic{equation}}

```

### 4.13 表格和列表环境

```

434 \let\@ldtabular\tabular
435 \let\end@ldtabular\endtabular
436 \renewenvironment{tabular}{\zihao{5}\@ldtabular}{\end@ldtabular}
437
438 % define nputabu environment which will stretch to textwidth
439 \newcolumntype{L}{>\raggedright\arraybackslash}X}
440 \newcolumntype{R}{>\raggedleft\arraybackslash}X}
441 \newcolumntype{C}{>\centering\arraybackslash}X}
442 \newenvironment{nputabu}[1][\zihao{5}]{%
443   {\#1\tabularx{\textwidth}}{\endtabularx}
444
445 \newenvironment{nplist}{%
446 \begin{group}\renewcommand{\labelenumi}{[\theenumi].}\enumerate}%
447 {\endenumerate\endgroup}

```

### 4.14 特殊章节设置

附录自动以英文字母编号

```

448 \let\npu@chapter\chapter
449 \def\npu@star@chapter#1{\npu@chapter{#1}}
450 \def\chapter{\secdef\npu@chapter\npu@star@chapter}
451 \newcounter{npu@c@appendix}
452 \setcounter{npu@c@appendix}{0}

```

```

453 \def\Appendix{\addtocounter{npu@c@appendix}{1}%
454 \chapter{\npu@appendix\Alph{npu@c@appendix}}}

```

致谢章节

```
455 \def\Thanks{\chapter{\npu@thanks}}
```

参加科研工作章节, 设置标题内容

```

456 \newcommand\Work{\chapter{\npu@work}}
457 \newcommand\papersection{\section*{\npu@work@paper}}
458 \newcommand\researchsection{\section*{\npu@work@research}}

```

声明页

```

459 \def\statement{
460 \begin{titlepage}
461 \linespread{1.5}
462 \parskip=7pt
463 \vspace*{0pt}
464 \songti\zihao{4}
465 \centerline{\bf \npu@schoolname}
466 \centerline{\bf \npu@p@statement}
467 \songti\zihao{5}
468 \npu@longp@statement\par
469 \npu@a@signature\npu@comma\underline{\qqquad\qqquad\qqquad} \hfill
470 \npu@s@signature\npu@comma\underline{\qqquad\qqquad\qqquad} \par
471 \hskip 3cm \npu@ymd \hfill\hskip 3cm \npu@ymd
472 \vspace*{30pt}
473 \hbox to \hsize{\leaders\hbox to 1em{\hss--\hss}\hfill}
474
475 \vspace*{50pt}
476 \songti\zihao{4}
477 \centerline{\bf \npu@schoolname}
478 \centerline{\bf \npu@c@statement}
479 \songti\zihao{5}
480 \npu@longc@statement\par
481 \hskip5.5cm
482 \hfill\npu@a@signature\npu@comma\underline{\qqquad\qqquad\qqquad}\par
483 \hfill\hskip8.5cm \npu@ymd
484 \end{titlepage}}

```

## 4.15 默认定理环境

定义定理环境

```

485 % ref amsthdoc.pdf
486 \newtheoremstyle{nputheorem}% name
487 {0pt}% Space above
488 {0pt}% Space below
489 {\itshape}% Body font
490 {}% Indent amount
491 {\bfseries}% Theorem head font
492 {}% Punctuation after theorem head
493 {.5em}% Space after theorem head
494 {}% Theorem head spec (can be left empty, meaning ‘normal’ )
495
496 \newtheoremstyle{npuplain}% name
497 {0pt}% Space above
498 {0pt}% Space below
499 {}% Body font
500 {}% Indent amount
501 {\bfseries}% Theorem head font
502 {}% Punctuation after theorem head
503 {.5em}% Space after theorem head
504 {}% Theorem head spec (can be left empty, meaning ‘normal’ )
505
506 \theoremstyle{npuplain} % set default style to npuplain

```

## 4.16 定义符号表

```

507 \RequirePackage{nomencl} % add symbol notation
508 \RequirePackage{multicol} % for two column notation
509 % \AtEndPreamble{\makenomenclature}
510 \makenomenclature
511 \renewcommand{\nomname}{\npu@nomname}
512
513 % code come from @egreg
514 % https://tex.stackexchange.com/questions/78764/two-column-nomenclature
515 \ifundefined{chapter}
516 {\def\wilh@nomsection{section}}
517 {\def\wilh@nomsection{chapter}}
518
519 \def\thenomenclature{%
520 % \newlength{\npu@columnsep@save}
521 % \setlength{\npu@columnsep@save}{\columnsep}
522 % \setlength{\columnsep}{20pt}
523 % \begin{multicols}{2}[%
524 % \csname\wilh@nomsection\endcsname*{\nomname}
525 % \if@intoc\addcontentsline{toc}{\wilh@nomsection}{\nomname}\fi
526 % \nompreamble % \raggedcolumns
527 % ]
528 \list{}{%
529 \labelsep=15pt
530 \labelwidth\nom@tempdim
531 \leftmargin\labelwidth
532 \advance\leftmargin\labelsep
533 \itemsep\nomitemsep
534 \let\makelabel\nomlabel}%
535 }
536 \def\endthenomenclature{%
537 \endlist
538 % \end{multicols}
539 % \setlength{\columnsep}{\npu@columnsep@save}
540 \nompostamble}

```

## 4.17 配置变量

```

541 \def\npu@degreename@zh{\if@npu@phd 博士\else 硕士\fi}
542 \def\npu@comma{~::~}
543 \def\npu@schoolno{学校代码}
544 \def\npu@classno{分类号}
545 \def\npu@secretlevel{密级}
546 \def\npu@authorno{学号}
547 \def\npu@title{题目}
548 \def\npu@author{作者}
549 \def\npu@major{学科、专业}
550 \def\npu@supervisor{指导教师}
551 \def\npu@applydate{申请学位日期}
552 \def\npu@schoolname{西北工业大学}
553 \def\npu@degree{\npu@degreename@zh 学位论文}
554 \def\npu@degreeclass{(学位研究生)}
555 \def\npu@rightmark{西北工业大学\npu@degreename@zh 学位论文}
556 \def\npu@Abstract{Abstract}
557 \def\npu@abstract{摘\quad 要}
558 \def\npu@Keywords{Key words}
559 \def\npu@keywords{关键词}
560 \def\npu@contents{目\quad 录}
561 \def\npu@nomname{符号表}
562 \def\npu@appendix{附\quad 录}
563 \def\npu@thanks{致\quad 谢}
564 \def\npu@work{攻读\npu@degreename@zh 学位期间发表的学术论文和参加科研情况}
565 \def\npu@work@paper{发表学术论文}
566 \def\npu@work@research{参加科研情况}
567 \def\npu@p@statement{学位论文知识产权声明书}
568 \def\npu@c@statement{学位论文原创性声明}
569 \def\npu@ymd{年\quad 月\quad 日}

```

```
570 \def\npu@a@signature{学位论文作者签名}  
571 \def\npu@s@signature{指导教师签名}  
572 \long\def\npu@longp@statement{%  
573 本人完全了解学校有关保护知识产权的规定，即：研究生在校攻读学位期间论文工作的  
574 知识产权单位属于西北工业大学。学校有权保留并向国家有关部门或机构送交论文的复  
575 印件和电子版。本人允许论文被查阅和借阅。学校可以将本学位论文的全部或部分内  
576 容编入有关数据库进行检索，可以采用影印、缩印或扫描等复制手段保存和汇编本学位  
577 论文。同时本人保证，毕业后结合学位论文研究课题再撰写的文章一律注明作者单位  
578 为西北工业大学。  
579 \par 保密论文待解密后适用本声明。}  
580 \long\def\npu@longc@statement{%  
581 秉承学校严谨的学风和优良的科学道德，本人郑重声明：所呈交的学位论文，是本  
582 人在导师的指导下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  
583 内容和致谢的地方外，本论文不包含任何其他个人或集体已经公开发表或撰写过的  
584 研究成果，也不包含本人或其他已申请学位或其他用途使用过的成果。对本文的研  
585 究做出重要贡献的个人和集体，均已在文中以明确方式表明。  
586 \par 本人学位论文与资料若有不实，愿意承担一切相关的法律责任。}  
587 </class>
```

## 版本历史

<b>v0.6.1</b>	(2019/12/28)	Make the line under the title longer . . . . .	1
General: Add ‘nputabu’ environment . . . . .	1	Remark: “AutoFakeBold” option can be used when	
Add theorem style ‘npuplain’, and set it to default . . . .	1	load this document class to make the font in the cover	
Delete option workbib . . . . .	1	page as bold font . . . . .	1
Modify font size in tabular environment to ‘zihao5’ . . . .	1	<b>v0.6.3</b>	(2020/02/18)
Replace nputhesis.bst by gbt7714-2005.bst . . . . .	1	General: Add option ‘dbr’ for double-blind review . . . . .	1
<b>v0.6.2</b>	(2020/01/10)	Initial version use dtx . . . . .	1
General: Adjust the skip of the chapter title . . . . .	1		

## 代码索引

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。

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