

The nputhesis class*

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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}
```

*This document corresponds to nputhesis v1.0.0, dated 2020/04/21.

这里使用 `AutoFakeBold` 为外封面的字体加黑. 在 `TeXLive 2019` 之前的版本中, 启用该选项将导致 `=xelatex=` 编译生成的 `=pdf=` 文件内容复制时显示为乱码, 进而导致查重报告显示为乱码. 解决方法有以下三种:

1. 升级 `TeXLive` 到 2019 版.
2. 使用 `Adobe` 字体. 首先自行下载安装 `Adobe` 字体, 然后在 `tex` 源文件导言区重新定义相关字体.

```
\documentclass[twoside, UTF8, phd, dbr, AutoFakeBold]{nputhesis}
% 导言区
\renewcommand{\songti}{\CJKfontspec{Adobe Song Std L}}      % adobe 宋体
\renewcommand{\kaishu}{\CJKfontspec{Adobe Kaiti Std R}}      % adobe 楷体
\renewcommand{\heiti}{\CJKfontspec{Adobe Heiti Std R}}       % adobe 黑体
\renewcommand{\fangsong}{\CJKfontspec{Adobe Fangsong Std R}} % adobe 仿宋
% other command
\begin{document}
正文
\end{document}
```

3. 去掉 `AutoFakeBold` 选项. 这样会导致外封面字体不能加黑.

若需生成盲评版本, 添加选项 `dbr` 即可, 如

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

关于 `\dbr` 命令的使用请参考 2.4 节, 2.9 节以及 4.3 节.

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{0242}
\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

表 1 数值误差和收敛阶

N	L^2 误差	收敛阶
4	8.1060e-03	0.00
8	2.0489e-03	1.98
16	5.3476e-04	1.94
32	1.5625e-04	1.77

```
\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

表格可以使用 `nputabu` 环境. 列模式除了常规的 `c`, `r` 和 `l` 外, 还可以使用 ‘`nputhesis.cls`’ 中定义的列模式 `C`, `R` 和 `L`, 它们表示等列宽模式下的居中, 居右和居左.

如下代码生成的表格见表 1.

```
\begin{table}
\caption{数值误差和收敛阶}
\begin{nputabu}{CCC}
\toprule
 $N$  &  $L^2$  误差 & 收敛阶 & \\
\midrule
4 & 8.1060e-03 & 0.00 & \\
8 & 2.0489e-03 & 1.98 & \\
16 & 5.3476e-04 & 1.94 & \\
32 & 1.5625e-04 & 1.77 & \\
\bottomrule
\end{nputabu}
\end{table}
```

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[oneside, 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
19 @Book{Lamport1994,
20   Title           = {A Document Preparation System},
21   Author          = {Leslie Lamport},
22   Publisher       = {Addison-Wesley},
23   Year            = {1994}
24 }
25
26 @Book{Liu2013,
27   Title           = {\LaTeX 入门},
28   Author          = {刘海洋},
29   Publisher       = {电子工业出版社},
30   Year            = {2013}
31 }
32 \end{filecontents}
33 \addbibresource{myrefs.bib}
34 \schoolno{10699}
35 \classno{0242}
36 \secretlevel{公开}
37 \authorno{0000999999}
38 \title[\LaTeX\ Template of NPU Thesis]{西工大硕博学位论文 \LaTeX 模板}
39 \author[\dbr{San Zhang}]{\dbr{张三}}
40 \major[Philosophy in Mathematics]{数学}
41 \supervisor[\dbr{Si Li}]{\dbr{李四}}
42 \applydate[April 2046]{2046~年~4~月}
43 \support{本文研究得到某某基金(编号:XXXXXXX)资助。}
44 \begin{document}
45 \makecover
46 \frontmatter
47
48 \begin{abstract}
49   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,
50   章节标题格式, 参考文献格式等.
51   \begin{keywords}
52     学位论文, \LaTeX\ 模板, 西工大

```

```

53 \end{keywords}
54 \end{abstract}
55 \begin{Abstract}
56 We implement the class |nputhesis| for the thesis of NWP.
57 \begin{Keywords}
58 Thesis Template, \LaTeX, NPU
59 \end{Keywords}
60 \end{Abstract}
61
62 \tableofcontents
63 \printnomenclature
64
65 \mainmatter
66
67 \chapter{绪论}
68 \section{\TeX 和 \LaTeX 介绍}
69 \TeX \parencite{Knuth1986} 和 \LaTeX \cite{Lamport1994, Liu2013}的介绍.
70 \section{nputhesis 简介}
71 \chapter{基础知识}
72 \section{基本命令}
73 \section{宏包}
74
75 \section{图表}
76 \begin{table}
77 \caption{数值误差和收敛阶}
78 \begin{nputabu}{CCC}
79 \toprule
80 $N$ & $L^2$ 误差 & 收敛阶 & \\
81 \midrule
82 4 & 8.1060e-03 & 0.00 & \\
83 8 & 2.0489e-03 & 1.98 & \\
84 16 & 5.3476e-04 & 1.94 & \\
85 32 & 1.5625e-04 & 1.77 & \\
86 \bottomrule
87 \end{nputabu}
88 \end{table}
89 \backmatter
90
91 \printbibliography % biblatex 输出参考文献方式
92
93 \Appendix % 编号附录
94
95 \Appendix* % 不编号附录
96
97 \Thanks % 致谢
98
99 \Work
100 \papersection % 以下填写发表论文情况
101
102 \begin{nplist}
103 \item {\bf \dbr{S. Zhang}}, \dbr{S. Li}. NPU 硕博学位论文
104 \LaTeX\ 模板 [D]. 2019.
105 \end{nplist}
106
107 \researchsection % 以下填写参加科研情况
108 \begin{nplist}
109 \item NPU \LaTeX 模板. 编号: 000000000, 参与.
110 \end{nplist}
111 \statement
112 \end{document}
113 </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
```

3.1.3 方法三

在 Windows 环境下直接运行 build.bat 即可.

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

```
114 <*class>
115 \newif\if@npu@phd
116 \newif\if@npu@blankinfo
117 \newif\if@npu@dbr % for double-blind review
118 \def\set@npu@phd{\@npu@phdtrue}
119 \def\set@npu@ma{\@npu@phdfalse}
```

使用 xkeyval 声明文档选项

```
120 \RequirePackage{xkeyval}
```

声明选项 blankinfo, 用于控制是否现实空白页标识信息.

```
121 \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.

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

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

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

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

声明选项 `dbr`, 用于生成盲评版本, 参考 `\dbr`.

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

该文类基于 `book` 类实现, 加载 `book` 文类.

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

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

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

```
129 \ProcessOptionsX \relax
```

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

4.2 使用的宏包

加载需要的宏包

```
131 \RequirePackage{geometry}
```

```
132 \RequirePackage{xcolor}
```

```
133 \RequirePackage{fancyhdr}
```

```
134 \RequirePackage{titletoc}
```

```
135 \RequirePackage{caption}
```

```
136 \RequirePackage{ulem}
```

```
137 \RequirePackage{amsthm}
```

```
138 \RequirePackage{amsmath}
```

```
139 \RequirePackage{amsfonts}
```

```
140 \RequirePackage{setspace}
```

```
141 \RequirePackage{longtable}
```

```
142 \RequirePackage{booktabs}
```

```
143 \RequirePackage{tabularx}
```

```
144 \RequirePackage{multirow}
```

```
145 \RequirePackage{graphicx}
```

```
146 % \RequirePackage[heading=true,zihao=-4]{ctex}
```

```
147 \RequirePackage{ifxetex}
```

```
148 \ifxetex
```

```
149 \setmainfont{Times New Roman}
```

```
150 \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.

```
151 \newcommand\@npu@replace[1]{\%
```

```
    \setlength{\fboxsep}{0pt}\%
```

```
153    \colorbox{black}{\phantom{#1}}}
```

```
154 \newcommand{\dbr}[1]{\if@npu@dbr \@npu@replace{#1}\relax\else #1\fi}
```

4.4 设置页面版式格式

```
155 \geometry{paperwidth=210mm,paperheight=297mm,%
```

```
    left=2.5cm,right=2.5cm,top=2.54cm,bottom=2.54cm}
```

```
157 \topmargin=-10.4mm
```

```
158 \headheight=17pt
```

```
159 \footskip=8mm
```

```
160 \headsep=5mm
```

页眉设置

```
161 \pagestyle{fancy}
```

```
162 % \renewcommand\chaptermark[1]{\markboth{\%
```

```
163 %    \if@mainmatter%
```



```

164 %      %\ifnum\arabic{chapter}>0%
165 %      \arabic{chapter}\quad%
166 %      %\fi%
167 %      \fi#1}{}}
168 \fancyhf{}
169 \fancyhead[EC]{\songti\zihao{-5}\npu@rightmark}
170 \fancyhead[OC]{\songti\zihao{-5}\leftmark}
171 \fancyfoot[C]{\songti\zihao{5}\thepage}
172 \renewcommand{\headrule}{%
173   \hrule width\headwidth height2.8pt \vspace{1pt}%
174   \hrule width\headwidth height0.8pt}
175 \fancypagestyle{plain}{\thispagestyle{fancy}}
176 \newcommand{\clearpagestyle}{\clearpage{\pagestyle{empty}\cleardoublepage}}

```

4.5 设置默认章节标题格式

```

177 \ifx\ctexset\undefined
178   \CTEXsetup[ % name={,}, number={\arabic{chapter}},% use default value
179     beforekip={0pt}, afterskip={20pt}]{chapter}
180   \CTEXsetup[nameformat={\heiti\zihao{3}\bf}]{chapter}
181   \CTEXsetup[titleformat={\heiti\zihao{3}}]{chapter}
182   \CTEXsetup[format={\heiti\zihao{4}}]{section}
183   \CTEXsetup[format={\heiti\zihao{-4}}]{subsection}
184 \else
185   \ctexset{
186     contentsname = {\npu@contents}
187   }
188   % title format of chapter
189   \ctexset{
190     % chapter/name={,}, % use default value in ctex
191     % chapter/number=\arabic{chapter}, % use default value in ctex
192     chapter/beforekip={0pt},
193     chapter/afterskip={20pt},
194     chapter/format={\heiti\zihao{3}\centering}
195   }
196   % title format of section
197   \ctexset{
198     section/name={,},
199     % section/beforekip={2ex plus .5ex minus .1ex},
200     % section/afterskip={1ex plus .1ex},
201     section/format={\heiti\zihao{4}}
202   }
203   % title format of subsection
204   \ctexset{
205     subsection/name={,},
206     % subsection/beforekip={2ex plus .5ex minus .1ex},
207     % subsection/afterskip={1ex plus .1ex},
208     subsection/format={\heiti\zihao{-4}}
209   }
210   \ctexset{
211     subsubsection/name={,},
212     % subsubsection/beforekip={1ex plus .3ex minus .1ex},
213     % subsubsection/afterskip={.5ex plus .1ex},
214     subsubsection/format={\heiti\zihao{-4}}
215   }
216   \ctexset{
217     paragraph/name={,},
218     % paragraph/beforekip={1ex plus .3ex minus .1ex},
219     % paragraph/afterskip={.5ex plus .1ex},
220     paragraph/format={\heiti\zihao{-4}}
221   }
222   \ctexset{
223     subparagraph/name={,},
224     % subparagraph/beforekip={1ex plus .3ex minus .1ex},
225     % subparagraph/afterskip={.5ex plus .1ex},
226     subparagraph/format={\heiti\zihao{-4}}
227   }
228 \fi

```

4.6 目录字体设置

```

229 \def\@contentfont{\songti\zihao{-4}}
230 \titlecontents{chapter}[0pt]{\@contentfont}
231 {\thecontentslabel\hspace{.5em}}{}
232 {\hspace{.5em}\titlerule*{.}\contentspage}
233 \titlecontents{section}[15pt]{\@contentfont}
234 {\thecontentslabel\quad}{}
235 {\hspace{.5em}\titlerule*{.}\contentspage}
236 \titlecontents{subsection}[30pt]{\@contentfont}
237 {\thecontentslabel\quad}{}
238 {\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.

```

239 \def\title{\@ifnextchar[\@title{\@title[]}}
240 \def\author{\@ifnextchar[\@author{\@author[]}}
241 \def\major{\@ifnextchar[\@major{\@major[]}}
242 \def\supervisor{\@ifnextchar[\@supervisor{\@supervisor[]}}
243 \def\applydate{\@ifnextchar[\@applydate{\@applydate[]}}
244 \def\@title[#1]#2{\def\@title@en{#1}\def\@title{#2}}
245 \def\@author[#1]#2{\def\@author@en{#1}\def\@author{#2}}
246 \def\@major[#1]#2{\def\@major@en{#1}\def\@major{#2}}
247 \def\@supervisor[#1]#2{\def\@supervisor@en{#1}\def\@supervisor{#2}}
248 \def\@applydate[#1]#2{\def\@applydate@en{#1}\def\@applydate{#2}}
249 \def\@title{}\def\@title@en{}
250 \def\@author{}\def\@author@en{}
251 \def\@major{}\def\@major@en{}
252 \def\@supervisor{}\def\@supervisor@en{}
253 \def\@applydate{}\def\@applydate@en{}
254 \def\npu@empty{}
255 \def\schoolno#1{\def\@schoolno{#1}}\def\@schoolno{}
256 \def\classno#1{\def\@classno{#1}}\def\@classno{}
257 \def\secretlevel#1{\def\@secretlevel{#1}}\def\@secretlevel{}
258 \def\authorno#1{\def\@authorno{#1}}\def\@authorno{}
259 \def\support#1{\def\@support{#1}}\def\@support{}
260 \if@npu@phd
261 \def\npu@degreename@en{Doctor}
262 \else
263 \def\npu@degreename@en{Master}
264 \fi

```

4.8 设置字体和行距

```

265 % \renewcommand{\normalsize}{\zihao{-4}}
266 \linespread{1.25}

```

4.9 封面

定义外封面

```

267 \def\makeoutercover{
268 \begin{titlepage}
269 \bfseries
270 \linespread{1.25}
271 \begin{center}
272 \hfill% default \bf font
273 \heiti\zihao{5}
274 \newlength{\max@length}
275 \settowidth{\max@length}{\npu@schoolno\npu@comma 2000000000}
276 \newlength{\name@length}
277 \settowidth{\name@length}{\npu@schoolno}
278 \begin{minipage}{\max@length}
279 \vskip.5cm
280 \renewcommand\arraystretch{1.2}
281 \begin{tabular}{|c|c|}\hline

```

```

282 \makebox[\name@length][s]{\npu@schoolno} & \@schoolno \\ \hline
283 \makebox[\name@length][s]{\npu@classno} & \@classno \\ \hline
284 \makebox[\name@length][s]{\npu@secretlevel}& \@secretlevel \\ \hline
285 \makebox[\name@length][s]{\npu@authorno} & \@authorno \\ \hline
286 \end{tabular}
287 \end{minipage}
288 \par\vspace{9cm}
289 \songti\zihao{2}
290 \begin{minipage}[t]{2cm}
291 \hfill\npu@title\\
292 \end{minipage}
293 %\hbox to 2.5cm{\hfill \npu@title}
294 \setbox123=\hbox{
295 \begin{minipage}[t]{12cm}
296 \begin{center}
297 \heiti\@title
298 \end{center}
299 \end{minipage} }
300 \setbox124=\hbox{
301 \begin{minipage}[t]{12cm}
302 \begin{center}
303 \uline{\hfill\quad\hfill}\\
304 \uline{\hfill\quad\hfill}\\
305 \end{center}
306 \end{minipage} }
307 \hskip-0.5cm
308 \copy123\kern-\wd123\box124
309 \zihao{3}
310 \par\vspace{2.5\baselineskip}
311 \begin{minipage}{5cm}
312 {\kaishu\npu@author} \uline{\hfill\@author\hfill}
313 \end{minipage}
314 \par\vspace{2.5\baselineskip}
315 \settowidth{\name@length}{\npu@applydate}
316 \begin{minipage}{12.5cm}
317 \noindent
318 \makebox[\name@length][s]{\npu@major}%
319 {\uline{\hfill{\@major}\hfill}} \par
320 \vspace{0.5\baselineskip}
321 \makebox[\name@length][s]{\npu@supervisor}%
322 {\uline{\hfill{\@supervisor}\hfill}} \par
323 \vspace{0.5\baselineskip}
324 \makebox[\name@length][s]{\npu@applydate}%
325 {\uline{\hfill{\@applydate}\hfill}} \par
326 \end{minipage}
327 \vspace{2\baselineskip}
328 \end{center}
329 \end{titlepage}
330 \clearpagestyle
331 }

```

定义内封面

```

332 \def\makeinnercover@zh{
333 \begin{titlepage}
334 \linespread{1.25}
335 \vspace*{2cm}
336 \begin{center}
337 \settowidth{\name@length}{\zihao{3}\npu@schoolname}
338 \divide\name@length by 12
339 \multiply\name@length by 17
340 \makebox[\name@length][s]{\zihao{3}\npu@schoolname}
341 \vskip5mm
342 \settowidth{\name@length}{\zihao{1}\npu@degree}
343 \divide\name@length by 12
344 \multiply\name@length by 17
345 \makebox[\name@length][s]{\zihao{1}\npu@degree}
346 \vskip5mm

```

```

347 \centerline{\zihao{4}\npu@degreeclass}
348 \vskip5cm
349 \zihao{2}
350 \begin{minipage}[t]{2.5cm}
351 \hfil\npu@title\npu@comma
352 \end{minipage}
353 \setbox123=\hbox{
354 \begin{minipage}[t]{11cm}
355 \begin{center}
356 \@title
357 \end{center}
358 \end{minipage}}
359 \setbox124=\hbox{
360 \begin{minipage}[t]{11cm}
361 \begin{center}
362 \uline{\hfill\quad\hfill}\\\
363 \uline{\hfill\quad\hfill}\\\
364 \end{center}
365 \end{minipage}}
366 \hskip-1cm
367 \copy123\kern-\wd123\box124
368 \par\vspace{4cm}
369 \zihao{3}
370 \settowidth{\name@length}{\npu@major}
371 \begin{minipage}{8cm}
372 \noindent
373 \makebox[\name@length][s]{\npu@author}\npu@comma%
374 \uline{\hfill\@author\hfill}\par
375 \vspace{0.25\baselineskip}
376 \makebox[\name@length][s]{\npu@major}\npu@comma%
377 \uline{\hfill\@major\hfill}\par
378 \vspace{0.25\baselineskip}
379 \makebox[\name@length][s]{\npu@supervisor}\npu@comma%
380 \uline{\hfill\@supervisor\hfill}\par
381 \vspace{1\baselineskip}
382 \end{minipage}
383 \vspace{2\baselineskip}
384 \par\makebox[30mm]{\@applydate}\hfill
385 \end{center}
386 \end{titlepage}
387 \clearpagestyle
388 }

```

定义英文封面

```

389 \def\makeinnercover@en{
390 \begin{titlepage}
391 \linespread{1.25}
392 \vspace*{1.5cm}
393 \zihao{3}
394 \begin{center}
395 {\bf
396 %\Large
397 \@title@en \\
398 \vspace{3\baselineskip}
399 \zihao{-3}
400 By\\
401 \ifx\@author@en\npu@empty\quad\else\@author@en\fi\\
402 \vspace{1\baselineskip}
403 Under the Supervision of Professor\\
404 \ifx\@supervisor@en\npu@empty\quad\else\@supervisor@en\fi\\
405 %\Large
406 \vspace{4\baselineskip}
407 A Dissertation Submitted to\\
408 Northwestern Polytechnical University\\
409 \vspace{1\baselineskip}
410 In Partial Fulfillment of the Requirement\\
411 for the Degree of\\

```

```

412      \npu@degreename@en\ of \@major@en\\
413      \vspace{4\baselineskip}
414      Xi'an P. R. China\\
415      \@applydate@en
416      \end{center}
417      \end{titlepage}
418      \clearpagestyle
419  }

```

整合以上封面为一个命令 `makecover`

```

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

```

正文之前使用罗马数字编号

```

421 \let\npu@frontmatter\frontmatter
422 \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.

```

423 \def\cleardoublepage{\clearpage\if@twoside \ifodd\c@page\else
424   \hbox{}
425   \vspace*{\fill}
426   \begin{center}\Large
427     \if@npu@blankinfo
428       \textcolor{gray!60}{This Page Intentionally Left Blank!}
429     \fi
430   \end{center}
431   \vspace{\fill}
432   \thispagestyle{empty}
433   \newpage
434   \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

4.11 摘要环境

定义中英文摘要环境

```

435 \newenvironment{abstract}{%
436   \chapter{\npu@abstract}%\addcontentsline{toc}{chapter}{\npu@abstract}%
437   \newenvironment{keywords}{%
438     \vspace{2\baselineskip}\par\textbf{\npu@keywords\npu@comma}}{}
439   }{\vfill\zihao{5}}\@support}
440
441 \newenvironment{Abstract}{%
442   \chapter{\npu@Abstract}%\addcontentsline{toc}{chapter}{\npu@Abstract}%
443   \newenvironment{Keywords}{%
444     \vspace{2\baselineskip}\par\textbf{\npu@Keywords\npu@comma}}{}{}}

```

4.12 图表标题设置

```

445 \DeclareCaptionFont{song}{\songti\zihao{5}}
446 \captionsetup{labelsep=quad, font=song}
447 \captionsetup[figure]{aboveskip=10pt, belowskip=10pt}
448 \captionsetup[table]{aboveskip=10pt, belowskip=10pt}
449 \renewcommand\thetable{\arabic{chapter}-\arabic{table}}
450 \renewcommand\thefigure{\arabic{chapter}-\arabic{figure}}
451 \renewcommand\theequation{\arabic{chapter}-\arabic{equation}}

```

4.13 表格和列表环境

```

452 \let\ldtabular\tabular
453 \let\end@ldtabular\endtabular
454 \renewenvironment{tabular}{\zihao{5}\ldtabular}{\end@ldtabular}
455
456 % define nputabu environment which will stretch to textwidth
457 \newcolumnntype{L}{>\raggedright\arraybackslashX}

```

```

458 \newcolumntype{R}{>{\raggedleft\arraybackslash}X}
459 \newcolumntype{C}{>{\centering\arraybackslash}X}
460 % \changes{v1.0.0}{2020/04/21}{Add begingroup and endgroup in env ``nputabu''}
461 \newenvironment{nputabu}[1][\zihao{5}]{%
462   {\begingroup #1\tabularx{\textwidth}}{\endtabularx\endgroup}
463 }
464 \newenvironment{npulist}{%
465   \begingroup\renewcommand{\labelenumi}{[\theenumi].}\enumerate}%
466   {\endenumerate\endgroup}

```

4.14 特殊章节设置

附录自动以英文字母编号

```

467 \let\npu@chapter\chapter
468 \def\npu@star@chapter#1{\npu@chapter{#1}}
469 \def\chapter{\secdef\npu@chapter\npu@star@chapter}
470 \newcounter{npu@c@appendix}
471 \setcounter{npu@c@appendix}{0}
472 \def\npu@star@Appendix{\chapter{\npu@appendix}}
473 \def\npu@Appendix{\addtocounter{npu@c@appendix}{1}%
474   \chapter{\npu@appendix\Alph{npu@c@appendix}}}
475 \def\Appendix{\@ifstar{\npu@star@Appendix}{\npu@Appendix}}

```

致谢章节

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

参加科研工作章节, 设置标题内容

```

477 \newcommand\Work{\chapter{\npu@work}}
478 \newcommand\papersection{\section*{\npu@work@paper}}
479 \newcommand\researchsection{\section*{\npu@work@research}}

```

声明页

```

480 \def\statement{
481   \begin{titlepage}
482     \linespread{1.5}
483     \parskip=7pt
484     \vspace*{0pt}
485     \songti\zihao{4}
486     \centerline{\bf \npu@schoolname}
487     \centerline{\bf \npu@p@statement}
488     \songti\zihao{5}
489     \npu@longp@statement\par
490     \npu@a@signature\npu@comma\underline{\qqquad\qqquad\qqquad} \hfill
491     \npu@s@signature\npu@comma\underline{\qqquad\qqquad\qqquad} \par
492     \hspace{3cm}\npu@ymd \hfill\hspace{3cm}\npu@ymd
493     \vspace*{30pt}
494     \hbox to \hsize{\leaders\hbox to 1em{\hss--\hss}\hfill}
495   }
496   \vspace*{50pt}
497   \songti\zihao{4}
498   \centerline{\bf \npu@schoolname}
499   \centerline{\bf \npu@c@statement}
500   \songti\zihao{5}
501   \npu@longc@statement\par
502   \hspace{5.5cm}
503   \hfill\npu@a@signature\npu@comma\underline{\qqquad\qqquad\qqquad}\par
504   \hfill\hspace{8.5cm}\npu@ymd
505   \end{titlepage}}

```

4.15 默认定理环境

定义定理环境

```

506 % ref amsthdoc.pdf
507 \newtheoremstyle{nputheorem}% name
508   {0pt}% Space above
509   {0pt}% Space below

```

```

510 {\itshape}% Body font
511 {}% Indent amount
512 {\bfseries}% Theorem head font
513 {}% Punctuation after theorem head
514 {.5em}% Space after theorem head
515 {}% Theorem head spec (can be left empty, meaning ‘normal’ )
516
517 \newtheoremstyle{npuplain}% name
518 {0pt}% Space above
519 {0pt}% Space below
520 {}% Body font
521 {}% Indent amount
522 {\bfseries}% Theorem head font
523 {}% Punctuation after theorem head
524 {.5em}% Space after theorem head
525 {}% Theorem head spec (can be left empty, meaning ‘normal’ )
526
527 \theoremstyle{npuplain} % set default style to npuplain

```

4.16 定义符号表

```

528 \RequirePackage{nomencl} % add symbol notation
529 \RequirePackage{multicol} % for two column notation
530 % \AtEndPreamble{\makenomenclature}
531 \makenomenclature
532 \renewcommand{\nomname}{\npu@nomname}
533
534 % code come from @egreg
535 % https://tex.stackexchange.com/questions/78764/two-column-nomenclature
536 \ifundefined{chapter}
537 {\def\wilh@nomsection{section}}
538 {\def\wilh@nomsection{chapter}}
539
540 \def\thenomenclature{%
541 % \newlength{\npu@columnsep@save}
542 % \setlength{\npu@columnsep@save}{\columnsep}
543 % \setlength{\columnsep}{20pt}
544 % \begin{multicols}{2}[%
545 % \csname\wilh@nomsection\endcsname*{\nomname}
546 % \if@intoc\addcontentsline{toc}{\wilh@nomsection}{\nomname}\fi
547 % \nompreable % \raggedcolumns
548 % ]
549 \list{}{%
550 \labelsep=15pt
551 \labelwidth\nom@tempdim
552 \leftmargin\labelwidth
553 \advance\leftmargin\labelsep
554 \itemsep\nomitemsep
555 \let\makelabel\nomlabel}%
556 }
557 \def\endthenomenclature{%
558 \endlist
559 % \end{multicols}
560 % \setlength{\columnsep}{\npu@columnsep@save}
561 \nompostamble}

```

4.17 配置变量

```

562 \def\npu@degreename@zh{\if@npu@phd 博士\else 硕士\fi}
563 \def\npu@comma{~:~}
564 \def\npu@schoolno{学校代码}
565 \def\npu@classno{分类号}
566 \def\npu@secretlevel{密级}
567 \def\npu@authorno{学号}
568 \def\npu@title{题目}
569 \def\npu@author{作者}
570 \def\npu@major{学科、专业}

```

```

571 \def\npu@supervisor{指导教师}
572 \def\npu@applydate{申请学位日期}
573 \def\npu@schoolname{西北工业大学}
574 \def\npu@degree{\npu@degreename@zh 学位论文}
575 \def\npu@degreeclass{(学位研究生)}
576 \def\npu@rightmark{西北工业大学\npu@degreename@zh 学位论文}
577 \def\npu@Abstract{Abstract}
578 \def\npu@abstract{摘\quad 要}
579 \def\npu@Keywords{Key words}
580 \def\npu@keywords{关键词}
581 \def\npu@contents{目\quad 录}
582 \def\npu@nomname{符号表}
583 \def\npu@appendix{附\quad 录}
584 \def\npu@thanks{致\quad 谢}
585 \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}
586 \def\npu@work@paper{发表学术论文}
587 \def\npu@work@research{参加科研情况}
588 \def\npu@p@statement{学位论文知识产权声明书}
589 \def\npu@c@statement{学位论文原创性声明}
590 \def\npu@ymd{年\qquad 月\qquad 日}
591 \def\npu@a@signature{学位论文作者签名}
592 \def\npu@s@signature{指导教师签名}
593 \long\def\npu@longp@statement{%
594 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
595 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
596 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
597 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
598 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
599 为西北工业大学。
600 \par 保密论文待解密后适用本声明。}
601 \long\def\npu@longc@statement{%
602 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，是本人在
603 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内容和致
604 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研究成果，不
605 包含本人或其他已申请学位或其他用途使用过的成果。对本文的研究做出重要贡献的个
606 人和集体，均已在文中以明确方式表明。
607 \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。}
608 </class>

```


版本历史

v0.6.1	(2019/12/28)	load this document class to make the font in the cover page as bold font	1
General: Add ‘nputabu’ environment	1		
Add theorem style ‘npuplain’, and set it to default	1		
Delete option workbib	1		
Modify font size in tabular environment to ‘zihao5’	1		
Replace nputhesis.bst by gbt7714-2005.bst	1		
v0.6.2	(2020/01/10)	v1.0.0	(2020/02/18 – 2020/04/21)
General: Adjust the skip of the chapter title	1	General: Add comments on the option “AutoFakeBold”	
Make the line under the title longer	1	in the documents	2
Remark: “AutoFakeBold” option can be used when		Add option ‘dbr’ for double-blind review	8
		Fix bug of command “Appendix”	14
		Initial version use dtx	1
		Revise the README file	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。

Symbols			
\\	80, 82, 83, 84, 85, 282, 283, 284, 285, 291, 303, 304, 362, 363, 397, 400, 401, 403, 404, 407, 408, 410, 411, 412, 414		
\	38, 52, 104, 412		
A			
\addbibresource	33	\captionsetup	446, 447, 448
\addcontentsline	436, 442, 546	\centering	194, 459
\addtocounter	473	\centerline	347, 486, 487, 498, 499
\advance	553	\changes	460
\Alph	474	\chapter	67, 71, 436, 442, 467, 469, 472, 474, 476, 477
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\arraybackslash	457, 458, 459	\cleardoublepage	176, 423
\arraystretch	280	\clearpage	176, 423
\AtEndPreamble	530	\clearpagestyle	176, 330, 387, 418
\author	39, 240	\colorbox	153
\authorno	37, 258	\columnsep	542, 543, 560
B		\contentspage	232, 235, 238
\backmatter	89	\copy	308, 367
\baselineskip	310, 314, 320, 323, 327, 375, 378, 381, 383, 398, 402, 406, 409, 413, 438, 444	\csname	121, 122, 125, 545
\begin	11, 44, 48, 51, 55, 57, 76, 78, 102, 108, 268, 271, 278, 281, 290, 295, 296, 301, 302, 311, 316, 333, 336, 350, 354, 355, 360, 361, 371, 390, 394, 426, 481, 544	\ctexset	177, 185, 189, 197, 204, 210, 216, 222
\begingroup	462, 465	\CTEXsetup	178, 180, 181, 182, 183
\bf	103, 180, 272, 395, 486, 487, 498, 499	\CurrentOption	126
\bfseries	269, 512, 522	D	
\bottomrule	86	\dbr	39, 41, 103, 154
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E		\divide	338, 343
		\documentclass	2
		\else	154, 184, 262, 401, 404, 423, 562

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 287, 292, 298, 299, 305, 306, 313, 326, 328, 329, 352,
 357, 358, 364, 365, 382, 385, 386, 416, 417, 430, 505, 559
`\endcsname` 121, 122, 125, 545
`\endenumerate` 466
`\endgroup` 462, 466
`\endlist` 558
`\endtabular` 453
`\endtabularx` 462
`\endthenomenclature` 557
`\enumerate` 465
`\ExecuteOptionsX` 127, 128

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`\fancyfoot` 171
`\fancyhead` 169, 170
`\fancyhf` 168
`\fancypagestyle` 175
`\fboxsep` 152
`\fi` .. 150, 154, 166, 167, 228, 264, 401, 404, 429, 434, 546, 562
`\fill` 425, 431
`\footskip` 159
`\frontmatter` 46, 421, 422

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`\geometry` 155

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`\hbox` 293, 294, 300, 353, 359, 424, 434, 494
`\headheight` 158
`\headrule` 172
`\headsep` 160
`\headwidth` 173, 174
`\heiti` 180, 181, 182, 183, 194, 201, 208, 214, 220, 226, 273, 297
`\hfil` 351
`\hfill` 272, 291, 293, 303, 304, 312, 319, 322,
 325, 362, 363, 374, 377, 380, 384, 490, 492, 494, 503, 504
`\hline` 281, 282, 283, 284, 285
`\hrule` 173, 174
`\hsize` 494
`\hskip` 307, 366, 492, 502, 504
`\hspace` 231, 232, 235, 238
`\hss` 494

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`\ifnum` 164
`\ifodd` 423
`\ifx` 177, 401, 404
`\ifxetex` 148
`\item` 103, 109
`\itemsep` 554
`\itshape` 510

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`\kaishu` 312
`\kern` 308, 367

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`\labelenumi` 465
`\labelsep` 550, 553
`\labelwidth` 551, 552
`\Large` 396, 405, 426
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`\leftmargin` 552, 553
`\leftmark` 170
`\let` 421, 452, 453, 467, 555
`\linespread` 266, 270, 334, 391, 482
`\list` 549
`\LoadClass` 130
`\long` 593, 601

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`\mainmatter` 65
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`\makebox` 282,
 283, 284, 285, 318, 321, 324, 340, 345, 373, 376, 379, 384
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`\makelabel` 555
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`\midrule` 81
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`\newcommand` 151, 154, 176, 477, 478, 479
`\newcounter` 470
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