

# A Report Template for Huazhong University of Science and Technology: the hustreport class \*

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\*This document corresponds to hustreport.cls v1.1, dated 2016/06/01.

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# I Introduction

This is a report template for [Huazhong University of Science & Technology](#). This template is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

The whole project is published under LPPL v1.3 License at [GitHub](#).

中文使用说明见 [Part II](#)。

English version instruction is in [Part III](#).

## II 中文使用说明

### 1 使用必要条件

1. 安装最新版本的 **TeXLive** (推荐) 或 **MiKTeX**。因为未及时更新的宏包可能存在未修复的 **bug**，请确保所有宏包都更新至最新。
2. 安装如下中文字体<sup>1</sup>:
  - a) AdobeSongStd-Light
  - b) AdobeKaitiStd-Regular
  - c) AdobeHeitiStd-Regular
  - d) AdobeFangsongStd-Regular



如果使用 LuaTeX，安装字体之后需运行命令 `mkluatexfontdb` 生成字体索引。

### 2 安装

#### 2.1 安装到本地

使用如下命令即可安装本模板到本地：

```
make install
```

如需卸载，则使用如下命令：

```
make uninstall
```

对于没有安装 **Make** 的 **Windows** 系统用户，可以使用如下命令安装：

```
makewin32.bat install
```

如需卸载，则使用如下命令：

```
makewin32.bat uninstall
```

虽然 `makewin32.bat` 表现与 **Makefile** 极其相似，但是还是强烈建议你安装 **Make**，对于 **Windows** 用户可以在[这里](#)下载。

---

<sup>1</sup>本模板所用到的英文字体 **Tex Gyre Termes**，**Droid Sans** 和 **CMU Typewriter Text** 均默认安装于 **TeXLive** 和 **MiKTeX** 中。

## 2.2 免安装使用

如果你希望临时使用本模板，而非安装到本地供长期使用。使用如下命令解压模板文件：

```
make unpack
```

对于没有安装 Make 的 Windows 系统用户，则使用如下命令解压：

```
makewin32.bat unpack
```

再将 `hustreport` 目录下的如下文件拷贝到你  $\text{T}_{\text{E}}\text{X}$  工程根目录下即可：

- `hustreport.cls`
- `hust-title.eps`
- `hust-title.pdf`

## 3 基本用法



本文档只能使用  $\text{X}_{\text{E}}\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$  或  $\text{LuaL}_{\text{A}}\text{T}_{\text{E}}\text{X}$ （推荐）编译。

在源文件开头处选择加载本文档类型，即可使用本模板，如下所示：

```
\documentclass[language=chinese]{hustreport}
```

### 3.1 文档类型选项

加载本文档类型时，有如下三个选项提供选择。

---

**format**    `format = <draft|final>`

---

提交草稿选择 `draft` 选项，提交最终版选 `final` 选项。其中草稿正文页包括页眉（“华中科技大学研究生院”）、页眉修饰线（单线）、页脚（页码）和页脚修饰线（单线）。而最终版正文页不包括页眉、页眉修饰线和页脚修饰线，仅包含页脚（页码）。如果不指定，默认设置为 `final`。

---

**category**    `category = <none|literature-survey|thesis-proposal|academic-report|midterm-progress|practice>`

---

指定报告种类，它将通过设置字段 `\HUST@categoryname` 来影响封面处的标题。各个不同的选项产生的效果见表 1。你也可以通过命令 `\categoryname` 设置该字段。如果不指定，默认设置为 `none`。

---

**language**    `language = <chinese|english>`

---

指定论文语言。如果不指定，默认设置为 `chinese`。

Table 1: category 选项的作用

选项	中文环境下字段 <code>\HUST@categoryname</code>	英文环境下字段 <code>\HUST@categoryname</code>
<code>none</code>		
<code>literature-survey</code>	文献综述	Literature Survey
<code>thesis-proposal</code>	选题	Thesis Proposal
<code>academic-report</code>	学术报告	Academic Report
<code>midterm-progress</code>	论文中期进展	Midterm Progress Report
<code>practice</code>	实践环节	Practice Report

### 3.2 基本字段设置

模板中定义一些命令用于设置文档中的字段。

---

`\title` `\title{<title>}`

---

用于设定标题。

---

`\author` `\author{<author>}`

---

用于设定作者名。

---

`\major` `\major{<major>}`

---

用于设定专业。

---

`\advisor` `\advisor{<advisor>}`

---

用于设定导师。

---

`\department` `\department{<department>}`

---

用于设定院系。

---

`\stuno` `\stuno{<student id>}`

---

用于设定学号。

---

`\categoryname` `\categoryname{<category name>}`

---

用于设定封面处的文档种类。

---

`\abstract` `\abstract{<abstract>}`

---

用于设定摘要。

---

`\keywords` `\keywords{<keywords>}`

---

用于设定关键字。

### 3.3 其它基本命令

下面来介绍其它基本命令。

---

<code>\frontmatter</code>	这一组命令用于设定文档的状态、改变样式, 其具体使用见 <a href="#">简单示例</a> 。 <code>\frontmatter</code> 用在文档最开始, 表明文档的前言部分(如封面, 摘要, 目录等)的开始。 <code>\mainmatter</code> 表示文档正文的开始。 <code>\backmatter</code> 表示文档正文的结束。
<code>\mainmatter</code>	
<code>\backmatter</code>	

---

---

<code>\maketitle</code>	<code>\maketitle</code> 和 <code>\makecover</code> 作用相同, 用于生成封面和版权页面。
<code>\makecover</code>	

---

---

<code>\makeabstract</code>	用于生成摘要页面。
----------------------------	-----------

---

---

<code>\tableofcontents</code>	用于生成目录。
-------------------------------	---------

---

<code>ack</code>	<code>ack</code> 环境用于致谢页面。使用方法如下:
------------------	-----------------------------------

```
\begin{ack}
  <content>
\end{ack}
```

---

<code>\bibliography</code>	<code>\bibliography{(.bib file)}</code>
----------------------------	---

---

用于生成参考文献。

<code>appendix</code>	<code>appendix</code> 环境用于附录环境。你可以将附录置于 <code>appendix</code> 环境中, 如:
-----------------------	---

```
\begin{appendix}
  <content>
\end{appendix}
```

---

<code>\appendix</code>	或者使用 <code>\appendix</code> 代表后文均为附录, 如:
------------------------	--

---

```
\appendix
<content>
```

---

<code>\listoffigures</code>	这两个命令分别用于生成图片和表格索引, 可以根据要求在论文前言中使用或附录中使用。
<code>\listoftables</code>	

---

<code>publications</code>	<code>publications</code> 环境用于已发表论文页面。一般用于附录中。使用上同 <code>enumerate</code> 环境。如下:
---------------------------	--



```

\begin{publications}
  \item <thesis>
  <...>
\end{publications}

```

---

```
\TurnOffTabFontSetting
```

```
\TurnOnTabFontSetting
```

---

因为模板中设定了表格的行距和字号，使得使用中无法临时自定义表格的行距和字号。故提供两个命令用于关闭和开启默认表格的行距和字号设置。比如你如果需要输出一个自己定义字号的表格，可以使用如下示例：

```

\begin{group}
\TurnOffTabFontSetting
\footnotesize % 设置字号
\begin{tabular}{...}
  <content>
\end{tabular}
\TurnOnTabFontSetting
\end{group}

```

---

```
\email \email{<Email Address>}
```

---

用于生成邮箱地址。如`\email{name@example.com}`会生成如下效果的地址：  
**name@example.com**。

## 4 简单示例

如下为一个使用本模板的简单示例。更完整的例子请见 `hustreport-zh-example.tex` 文件，其效果见 `hustreport-zh-example.pdf`。

---

```

1 \documentclass[category=practice,language=chinese]{hustreport}
2
3 \stuno{你的学号}
4 \title{标题}
5 \author{作者名}
6 \major{专业}
7 \advisor{导师}
8 \department{院系}
9
10 \abstract{摘要}
11 \keywords{关键字}
12
13 \begin{document}

```

```

14
15 \frontmatter
16 \maketitle
17 \makeabstract
18 \tableofcontents
19 \listoffigures
20 \listoftables
21 \mainmatter
22
23 %% 正文
24
25 \backmatter
26
27 \begin{ack}
28 %% 致谢
29 \end{ack}
30 \bibliography{参考文献.bib文件}
31
32 \appendix
33
34 \begin{publications}
35 %% 发表过的论文列表
36 \end{publications}
37
38 %% 附录剩余部分
39
40 \end{document}

```

---

## 5 预设宏包介绍

本模板中预设了一些宏包，下面对其进行简单介绍。

- **algorithm2e** 算法环境。
- **enumitem** 自定义列表环境的式样。
- **fancynum** 用于将大数每三位断开。
- **listings** 代码环境。如需更好的代码高亮可以使用 **minted** 宏包。
- **longtable** 跨页的超长表格环境。
- **ltxtable** **longtable** 环境和 **tabularx** 环境的合并。
- **multirow** 用于表格中合并行。
- **overpic** 用于在图片上层叠其他内容。
- **tabularx** 扩展到表格环境。
- **zhnumber** 用于生成中文数字。

## 6 高级设置

### 6.1 切换字体

模板正文字体为宋体 (AdobeSongStd-Light), 同时我们提供如下命令切换中文字体:

---

```
\HEI {\HEI <content>}
```

```
\hei {\hei{<content>}}
```

---

切换字体为黑体 (AdobeHeitiStd-Regular)。

---

```
\KAI {\KAI <content>}
```

```
\kai {\kai{<content>}}
```

---

切换字体为楷体 (AdobeKaitiStd-Regular)。

---

```
\FANGSONG {\FANGSONG <content>}
```

```
\fangsong {\fangsong{<content>}}
```

---

切换字体为仿宋 (AdobeFangsongStd-Regular)。

如果需要加载其他字体, 请参阅宏包 **fontspec**, 宏包 **xeCJK** (对于 Xe<sub>La</sub>TeX) 和宏包 **luatex-j**a (对于 Lua<sub>La</sub>TeX) 的文档。

### III English Version Instruction

## 1 Requirement

Install the latest version of **TeXLive**(Recommend) or **MiKTeX**. Please ensure that all the packages are up-to-date.

## 2 Installation

### 2.1 Install into local

Use the command below to install this template into local.

```
make install
```

If you need uninstall it, use the command below.

```
make uninstall
```

For Windows User who don't install Make, use the command below to install.

```
makewin32.bat install
```

If you need uninstall it, use the command below.

```
makewin32.bat uninstall
```

Although `makewin32.bat` behaves much like `Makefile`, I still recommend you install Make into your Windows. You can download it from [here](#).

### 2.2 Use without installation

If you want to use this template temporary rather than installing it into local for long term use. Run below command to unpack the package.

```
make unpack
```

For Windows User who don't install Make, use the command below to unpack the package.

```
makewin32.bat unpack
```

Then copy the following files from directory `hustreport` into your  $\text{T}_{\text{E}}\text{X}$  project root directory.

- `hustreport.cls`
- `hust-title.eps`
- `hust-title.pdf`

## 3 Usage



*This template can only be compiled by  $\text{X}_{\text{E}}\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$  or  $\text{LuaL}_{\text{A}}\text{T}_{\text{E}}\text{X}$ (Recommend).*

Insert below code in the top of source code to use this template:

```
\documentclass[language=english]{hustreport}
```

### 3.1 Option

There're three options available when use this template.

---

<code>format</code>	<code>format = <math>\langle</math>draft final<math>\rangle</math></code>
---------------------	---

---

If `format` is set to `final`, the header will be removed. This option is only valid if `language` is set to `chinese`. The default value is `final`.

---

<code>language</code>	<code>language = <math>\langle</math>chinese english<math>\rangle</math></code>
-----------------------	---

---

Set what language is used in the document. The default value is `chinese`.

---

<code>category</code>	<code>category = <math>\langle</math>none literature-survey thesis-proposal academic-report midterm-progress practice<math>\rangle</math></code>
-----------------------	--

---

Set the category of the report. It will influence the title of document, see Table 2. You also can set it manually by the command `\categoryname`. The default value is `none`.

### 3.2 Variables setting

There're some commands which are used to set the variables for the thesis.

---

<code>\title</code>	<code>\title{<math>\langle</math>title<math>\rangle</math>}</code>
---------------------	--

---

Set title.

Table 2: Title under different category option

<b>Option</b>	<b>In Chinese mode</b> <code>\HUST@categoryname</code>	<b>In English mode</b> <code>\HUST@categoryname</code>
<code>none</code>		
<code>literature-survey</code>	文献综述	Literature Survey
<code>thesis-proposal</code>	选题	Thesis Proposal
<code>academic-report</code>	学术报告	Academic Report
<code>midterm-progress</code>	论文中期进展	Midterm Progress Report
<code>practice</code>	实践环节	Practice Report

---

`\author`    `\author{<author>}`

Set author.

---

`\major`    `\major{<major>}`

Set your major.

---

`\advisor`    `\advisor{<advisor>}`

Set your advisor.

---

`\department`    `\department{<department>}`

Set your department.

---

`\stuno`    `\stuno{<student id>}`

Set your student ID.

---

`\categoryname`    `\categoryname{<category name>}`

Set the category name in the titlepage.

---

`\abstract`    `\abstract{<abstract>}`

Put your abstract.

---

`\keywords`    `\keywords{<keywords>}`

Put your keywords.

### 3.3 Other commands

---

<code>\frontmatter</code>	Used to determine the different part of document. You can see the example at <a href="#">section 4</a> .
<code>\mainmatter</code>	
<code>\backmatter</code>	

---

---

<code>\maketitle</code>	<code>\maketitle</code> and <code>\makecover</code> are the same. Used to create the title page.
<code>\makecover</code>	

---

---

<code>\makeabstract</code>	Used to create abstract page.
----------------------------	-------------------------------

---

---

<code>\tableofcontents</code>	Used to create table of contents.
-------------------------------	-----------------------------------

---

<code>ack</code>	The <code>ack</code> environment is used to create acknowledge page.  <code>\begin{ack}</code> <content> <code>\end{ack}</code>
------------------	---

---

<code>\bibliography</code>	<code>\bibliography{(.bib file)}</code>
----------------------------	---

---

Used to create bibliography page.

<code>appendix</code>	The <code>appendix</code> environment is for appendix of course. Used like this:  <code>\begin{appendix}</code> <content> <code>\end{appendix}</code>
-----------------------	---

---

<code>\appendix</code>	Or simple use <code>\appendix</code> to indicate that the rest of document are all in appendix, like this:
------------------------	--

---

```
\appendix
<content>
```

---

<code>\listoffigures</code>	Create the index for all the figures and tables separately.
<code>\listoftables</code>	

---

<code>publications</code>	The <code>publications</code> environment is where you list all of your published theses. It's usually putted in appendix.
---------------------------	--

```

\begin{publications}
  \item <thesis>
  <...>
\end{publications}

```

---

```

\TurnOffTabFontSetting
\TurnOnTabFontSetting

```

---

This template has set the font size and line spread for all the tables which makes it's impossible to change font format temporary in one table. So it provides these to command to temporary disable or enable default font setting in table. For example, if you want to change table font size, you can use the code like this:

```

\begin{group}
\TurnOffTabFontSetting
\footnotesize % Set your font format as you like.
\begin{tabular}{...}
  <content>
\end{tabular}
\TurnOnTabFontSetting
\end{group}

```

---

```

\email \email{<Email Address>}

```

---

A command to display email address. For example, `\email{name@example.com}` would look like this: `name@example.com`.

## 4 Simple example

Below is a simple example of using this template. For a complete example see `hustreport-en-example.tex` which will generate `hustreport-en-example.pdf`.

---

```

1 \documentclass[category=practice,language=english]{hustreport}
2
3 \title{your title}
4 \author{your name}
5 \stuno{your student number}
6 \advisor{your advisor}
7 \major{your major}
8 \department{your department}
9
10 \abstract{the abstract}

```



```

11 \keywords{the keywords}
12
13 \begin{document}
14
15 \frontmatter
16 \maketitle
17 \makeabstract
18 \tableofcontents
19 \listoffigures
20 \listoftables
21 \mainmatter
22
23 %% main body
24
25 \backmatter
26
27 \begin{ack}
28 %% acknowledge
29 \end{ack}
30 \bibliography{.bib file}
31
32 \appendix
33
34 \begin{publications}
35 %% your publications
36 \end{publications}
37
38 %% rest of appendix
39
40 \end{document}

```

---

## 5 Introduction to some packages used in the template

Here's a list of some packages used in the template.

- **algorithm2e** For display algorithm.
- **enumitem** For set the style of enumerate, itemize and description environment.
- **fancynum** Display the really big number.
- **listings** For display the highlighted code. If you need better quality, use the package **minted**.
- **longtable** Create a very long table.

- **ltxtable** Combine the features of longtable and tabularx.
- **multirow** Combine multi-rows in table.
- **overpic** Put something over a picture,
- **tabularx** A better table environment.

## IV Implementation

```
1 %<*class>
2 \RequirePackage{ifthen}
```

### 1 Process Options

Use **xkeyval** to process options.

```
3 \RequirePackage{xkeyval}

   Option format.

4 \newif\ifHUST@finalformat
5 \HUST@finalformattrue
6 \DeclareOptionX{format}[final]{
7   \ifthenelse{\equal{#1}{final}}{
8     \HUST@finalformattrue
9   }{
10    \ifthenelse{\equal{#1}{draft}}{
11      \HUST@finalformatfalse
12    }{
13      \ClassError{hustreport}
14      {Option format can only be 'final' or 'draft'}
15      {Try to remove option format^^J}
16    }
17  }
18 }
```

Option language.

```
19 \gdef\HUST@language{chinese}
20 \DeclareOptionX{language}[chinese]{
21   \ifthenelse{\equal{#1}{chinese} \OR \equal{#1}{english}}{
22     \gdef\HUST@language{#1}
23   }{
24     \ClassError{hustreport}
25     {Option language can only be 'chinese' or 'english'}
26     {Try to remove option language^^J}
27   }
28 }
```

Option degree.

```
29 \gdef\HUST@degree{ms}
30 \DeclareOptionX{degree}[ms]{
31   \ifthenelse{\equal{#1}{ms} \OR \equal{#1}{me} \OR \equal{#1}{phd}}{
32     \gdef\HUST@degree{#1}
33   }{
34     \ClassError{hustreport}
35       {Option degree can only be 'ms', 'me' or 'phd'}
36       {Try to remove option degree^^J}
37   }
38 }
```

Option category.

```
39 \gdef\HUST@category{none}
40 \DeclareOptionX{category}[none]{
41   \ifthenelse{\equal{#1}{none} \OR \equal{#1}{literature-survey} \OR \equal{#1}{thesis-proposal}}{
42     \gdef\HUST@category{#1}
43   }{
44     \ClassError{hustreport}
45       {Option category can only be 'none', 'literature-survey', 'thesis-proposal', 'accompanying'}
46       {Try to remove option category^^J}
47   }
48 }
```

Process options and load class book.

```
49 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
50 \ProcessOptionsX
51 \LoadClass[12pt, a4paper, openany]{book}
```

## 2 Check Engine

Check engine, only Xe<sub>La</sub>TeX and Lua<sub>La</sub>TeX are supported.

```
52 \RequirePackage{iftex}
53 \ifXeTeX\else
54   \ifLuaTeX\else
55     \begingroup
56       \errorcontextlines=-1\relax
57       \newlinechar=10\relax
58       \errmessage{^^J
59         *****^^J
60         * XeTeX or LuaTeX is required to compile this document.^^J
61         * Sorry!^^J}
```

```

62      *****~J
63      }%
64      \endgroup
65      \fi
66      \fi

```

### 3 Font Setting

Set font used in document. Firstly, it's font setting for English font under english mode. We use **fontspec** package to handle font. We choose Tex Gyre Termes, Droid Sans and CMU Typewriter Text as document main font, sans font and mono font.

```

67 \ifthenelse{\equal{\HUST@language}{english}}{
68     \RequirePackage{fontspec}
69     \setmainfont[
70         Ligatures={Common,TeX},
71         Extension=.otf,
72         UprightFont=*-regular,
73         BoldFont=*-bold,
74         ItalicFont=*-italic,
75         BoldItalicFont=*-bolditalic]{texgyretermes}
76     \setsansfont[Ligatures={Common,TeX}]{Droid Sans}
77     \setmonofont{CMU Typewriter Text}
78     \defaultfontfeatures{Mapping=tex-text}

```

Now let's set the Chinese font commands into empty, when document is under english mode.

```

79     \let\HEI\relax
80     \let\KAI\relax
81     \let\FANGSONG\relax
82     \newcommand{\hei}[1]{#1}
83     \newcommand{\kai}[1]{#1}
84     \newcommand{\fangsong}[1]{#1}
85 }{}

```

Below is the font setting under chinese mode. We chooses the same English font as under english mode. We use **xecjk** package (for X<sub>Y</sub>LaTeX) or **luatex-jafont** package (for LuaLaTeX, recommend) to handle Chinese font. We will use font: AdobeSongStd-Light, AdobeKaitiStd-Regular, AdobeHeitiStd-Regular and AdobeFangsongStd-Regular.

```

86 \ifthenelse{\equal{\HUST@language}{chinese}}{

```

```

87 \ifXeTeX % XeTeX 下使用 fontspec + xeCJK 处理字体
88 % 英文字体
89 \RequirePackage{fontspec}
90 \RequirePackage{xunicode}
91 \setmainfont[
92   Ligatures={Common,TeX},
93   Extension=.otf,
94   UprightFont=*-regular,
95   BoldFont=*-bold,
96   ItalicFont=*-italic,
97   BoldItalicFont=*-bolditalic]{texgyretermes}
98 \setsansfont[Ligatures={Common,TeX}]{Droid Sans}
99 \setmonofont{CMU Typewriter Text}
100 \defaultfontfeatures{Mapping=tex-text}
101 % 中文字体
102 \RequirePackage[CJKmath]{xeCJK}
103 \setCJKmainfont[
104   BoldFont={Adobe Heiti Std},
105   ItalicFont={Adobe Kaiti Std}]{Adobe Song Std}
106 \setCJKsansfont{Adobe Kaiti Std}
107 \setCJKmonofont{Adobe Fangsong Std}
108 \xeCJKsetup{PunctStyle=kaiming}
109
110 \newcommand\ziju[2]{\renewcommand{\CJKglue}{\hskip #1} #2}}

```

## **\HEI**

```

111 \newCJKfontfamily\HEI{Adobe Heiti Std}

```

*(End definition for \HEI. This function is documented on page 10.)*

## **\KAI**

```

112 \newCJKfontfamily\KAI{Adobe Kaiti Std}

```

*(End definition for \KAI. This function is documented on page 10.)*

## **\FANGSONG**

```

113 \newCJKfontfamily\FANGSONG{Adobe Fangsong Std}

```

*(End definition for \FANGSONG. This function is documented on page 10.)*

## **\hei**

```

114 \newcommand{\hei}[1]{\HEI #1}}

```

*(End definition for \hei. This function is documented on page 10.)*

**\kai**

```
115 \newcommand{\kai}[1]{\{\KAI #1}}
```

*(End definition for \kai. This function is documented on page 10.)*

**\fangsong**

```
116 \newcommand{\fangsong}[1]{\{\FANGSONG #1}}
```

*(End definition for \fangsong. This function is documented on page 10.)*

```
117 \else\fi
118 \ifLuaTeX % LuaTeX 下使用 luatex-jd 处理字体 [推荐]
119 \RequirePackage{luatexja-fontspec}
120 % 英文字体
121 \setmainfont[Ligatures={Common,TeX}]{Tex Gyre Termes}
122 \setsansfont[Ligatures={Common,TeX}]{Droid Sans}
123 \setmonofont{CMU Typewriter Text}
124 \defaultfontfeatures{Mapping=tex-text,Scale=MatchLowercase}
125 % 中文字体
126 \setmainfont[
127     BoldFont={AdobeHeitiStd-Regular},
128     ItalicFont={AdobeKaitiStd-Regular}]{AdobeSongStd-Light}
129 \setsansfont{AdobeKaitiStd-Regular}
130 \defaultjfontfeatures{JFM=kaiming}
131
132 \newcommand\ziju[2]{\vbox{\ltjsetparameter{kanjiskip=#1} #2}}
```

**\HEI**

```
133 \newjfontfamily\HEI{AdobeHeitiStd-Regular}
```

*(End definition for \HEI. This function is documented on page 10.)*

**\KAI**

```
134 \newjfontfamily\KAI{AdobeKaitiStd-Regular}
```

*(End definition for \KAI. This function is documented on page 10.)*

**\FANGSONG**

```
135 \newjfontfamily\FANGSONG{AdobeFangsongStd-Regular}
```

*(End definition for \FANGSONG. This function is documented on page 10.)*

**\hei**

```
136 \newcommand{\hei}[1]{\{\jfontspec{AdobeHeitiStd-Regular} #1}}
```

*(End definition for \hei. This function is documented on page 10.)*

`\kai`

```
137 \newcommand{\kai}[1]{\jfontspec{AdobeKaitiStd-Regular} #1}
```

(End definition for `\kai`. This function is documented on page 10.)

`\fangsong`

```
138 \newcommand{\fangsong}[1]{\jfontspec{AdobeFangsongStd-Regular} #1}
```

(End definition for `\fangsong`. This function is documented on page 10.)

```
139 \else\fi
```

Generate Chinese number using `zhnumber`.

```
140 \RequirePackage{zhnumber}
```

```
141 \def\CJKnumber#1{\zhnumber{#1}} % 兼容 CJKnumb
```

```
142 }{}
```

## 4 Basic Format

We set global line spread to 1.3.

```
143 \linespread{1.3}\selectfont
```

Use `geometry` package to handle paper page.

```
144 \RequirePackage{geometry}
```

```
145 \geometry{
```

```
146 top=1.2in,
```

```
147 bottom=1.2in,
```

```
148 left=1in,
```

```
149 right=1in,
```

```
150 includefoot
```

```
151 }
```

```
152 \pagewidth=\paperwidth
```

```
153 \pageheight=\paperheight
```

Indent of paragraph and skip between paragraphs.

```
154 \RequirePackage{indentfirst}
```

```
155 \setlength{\parindent}{2em}
```

```
156 \setlength{\parskip}{0pt plus 2pt minus 1pt}
```

Packages to handle color.

```
157 \RequirePackage{color}
```

```
158 \RequirePackage[table]{xcolor}
```



Use **hyperref** package to generate cross-reference link.

```
159 \RequirePackage[unicode]{hyperref}
160 \hypersetup{
161   bookmarksnumbered=true,
162   bookmarksopen=true,
163   bookmarksopenlevel=1,
164   breaklinks=true,
165   colorlinks=true,
166   allcolors=black,
167   linktoc=all,
168   plainpages=false,
169   pdfpagelabels=true,
170   pdfstartview={XYZ null null 1},
171   pdfinfo={Template.Info={hustreport.cls v1.0 2013/07/01, Copyright (C) 2013-2014 by
172 }
```

## 5 Load Packages

Load packages for math.

```
173 \RequirePackage{amsmath,amssymb,amsfonts}
174 \RequirePackage[amsmath,amsthm,thmmarks,hyperref,thref]{ntheorem}
175 \RequirePackage{fancynum}
176 \setfnumgsym{\,,}
177 \RequirePackage[lined,boxed,linesnumbered,ruled,vlined,algochapter]{algorithm2e}
```

Load packages for picture.

```
178 \RequirePackage{overpic}
179 \RequirePackage{graphicx,caption,subcaption}
```

Load packages for table.

```
180 \RequirePackage{array}
181 \RequirePackage{multirow,tabularx,ltxttable}
```

Load package for code highlight. Here we use **listings** to highlight the code. But if you need more features, use **minted**.

```
182 \RequirePackage{listings}
```

Load package for bibliography cite style.

```
183 \RequirePackage[numbers,square,comma,super,sort&compress]{natbib}
```

Other packages for style setting.

```
184 \RequirePackage{titlesec}
185 \RequirePackage{titletoc}
```

```

186 \RequirePackage{tocvsec2}
187 \RequirePackage[inline]{enumitem}
188 \RequirePackage{fancyhdr}
189 \RequirePackage{afterpage}
190 \RequirePackage{datenum}
191 \RequirePackage{etoolbox}
192 \RequirePackage{appendix}
193 \RequirePackage[titles]{tocloft}
194 \RequirePackage{xstring}
195 \RequirePackage{perpage}

```

## 6 Variables Setting

**\title** A command to set the title.

```

196 \def\title#1{\gdef\HUST@title{#1}\hypersetup{pdftitle={#1}}}
197 \title{}

```

*(End definition for \title. This function is documented on page 12.)*

**\author** A command to set the author.

```

198 \def\author#1{\gdef\HUST@author{#1}\hypersetup{pdfauthor={#1}}}
199 \author{}

```

*(End definition for \author. This function is documented on page 13.)*

**\major** A command to set the major.

```

200 \def\major#1{\gdef\HUST@major{#1}}
201 \major{}

```

*(End definition for \major. This function is documented on page 13.)*

**\advisor** A command to set the advisor.

```

202 \def\advisor#1{\gdef\HUST@advisor{#1}}
203 \advisor{}

```

*(End definition for \advisor. This function is documented on page 13.)*

**\department** A command to set the department.

```

204 \def\department#1{\gdef\HUST@department{#1}}
205 \department{}

```

*(End definition for \department. This function is documented on page 13.)*

**\stuno** A command to set student number.

```
206 \def\stuno#1{\gdef\HUST@stuno{#1}}
207 \stuno{}
```

*(End definition for \stuno. This function is documented on page 13.)*

**\categoryname** A command to set the categoryname.

```
208 \def\categoryname#1{\gdef\HUST@categoryname{#1}}
209 \categoryname{}
```

*(End definition for \categoryname. This function is documented on page 13.)*

**\abstract** A command to set the abstract.

```
210 \long\def\abstract#1{\long\gdef\HUST@abstract{#1}}
211 \abstract{}
```

*(End definition for \abstract. This function is documented on page 13.)*

**\keywords** Commands to set the keywords.

```
212 \def\keywords#1{\gdef\HUST@keywords{#1}\hypersetup{pdfkeywords={#1}}}
213 \keywords{}
```

*(End definition for \keywords. This function is documented on page 13.)*

## 7 Localization

Chinese localization.<sup>2</sup>

```
214 \ifthenelse{\equal{\HUST@language}{chinese}}{
215     \def\indexname{索引}
216     \def\figurename{图}
217     \def\tablename{表}
218     \AtBeginDocument{\def\listingscaption{代码}}
219     \def\bibname{参考文献}
220     \def\contentsname{目\hspace{1em}录}
221     \def\contentsnamenospace{目录}
222     \def\appendixname{附录}
223     \def\HUST@listfigurename{插图索引}
224     \def\HUST@listtablename{表格索引}
225     \def\equationautorefname{公式}
226     \def\footnoteautorefname{脚注}
227     \def\itemautorefname~#1\null{第~#1~项\null}
```

---

<sup>2</sup>The autorefname Reference:<http://tex.stackexchange.com/questions/52410/how-to-use-the-command-autoref-to-implement-the-same-effect-when-use-the-command>

```

228 \def\figureautorefname{图}
229 \def\tableautorefname{表}
230 \def\appendixautorefname{附录}
231 \expandafter\def\csname\appendixname autorefname\endcsname{\appendixname}
232 \def\chapterautorefname~#1\null{第\zhnumber{#1}章\null}
233 \def\sectionautorefname~#1\null{#1~小节\null}
234 \def\subsectionautorefname~#1\null{#1~小节\null}
235 \def\subsubsectionautorefname~#1\null{#1~小节\null}
236 \def\FancyVerbLineautorefname~#1\null{第~#1~行\null}
237 \def\pageautorefname~#1\null{第~#1~页\null}
238 \def\lstlistingautorefname{代码}
239 \def\definitionautorefname{定义}
240 \def\propositionautorefname{命题}
241 \def\lemmaautorefname{引理}
242 \def\theoremautorefname{定理}
243 \def\axiomautorefname{公理}
244 \def\corollaryautorefname{推论}
245 \def\exerciseautorefname{练习}
246 \def\exampleautorefname{例}
247 \def\proofautorefname{证明}
248 \SetAlgorithmName{算法}{算法}{算法索引}
249 \SetAlgoProcName{过程}{过程}
250 \SetAlgoFuncName{函数}{函数}
251 \def\AlgoLineautorefname~#1\null{第~#1~行\null}
252 }{}

```

English localization.

```

253 \ifthenelse{\equal{\HUST@language}{chinese}}{}{
254 \def\HUST@listfigurename{List of Figures}
255 \def\HUST@listtablename{List of Tables}
256 \def\equationautorefname{Equation}
257 \def\footnoteautorefname{Footnote}
258 \def\itemautorefname{Item}
259 \def\figureautorefname{Figure}
260 \def\tableautorefname{Table}
261 \def\appendixautorefname{Appendix}
262 \expandafter\def\csname\appendixname autorefname\endcsname{\appendixname}
263 \def\chapterautorefname{Chapter}
264 \def\sectionautorefname{Section}
265 \def\subsectionautorefname{Subsection}
266 \def\subsubsectionautorefname{Sub-subsection}
267 \def\FancyVerbLineautorefname{Line}

```

```

268 \def\pageautorefname{Page}
269 \def\lstlistingautorefname{Code Fragment}
270 \def\definitionautorefname{Definition}
271 \def\propositionautorefname{Proposition}
272 \def\lemmaautorefname{Lemma}
273 \def\theoremautorefname{Theorem}
274 \def\axiomautorefname{Axiom}
275 \def\corollaryautorefname{Corollary}
276 \def\exerciseautorefname{Exercise}
277 \def\exampleautorefname{Example}
278 \def\proofautorefname{Proof}
279 \SetAlgorithmName{Algorithm}{Algorithm}{List of Algorithms}
280 \SetAlgoProcName{Procedure}{Procedure}
281 \SetAlgoFuncName{Function}{Function}
282 \def\AlgoLineautorefname{Line}
283 }

```

Internal variables.

```

284 \def\HUST@headcontent{华中科技大学研究生院}
285
286 \def\HUST@zhabstractname{摘\hspace{1em}要}
287 \def\HUST@zhabstractnamenospace{摘要}
288 \def\HUST@zhkeywordstitle{关键词: }
289 \def\HUST@enabstractname{Abstract}
290 \def\HUST@enkeywordstitle{Key words:}
291
292 \ifthenelse{\equal{\HUST@language}{chinese}}{
293   \def\HUST@ackname{致\hspace{1em}谢}
294   \def\HUST@acknamenospace{致谢}
295   \def\HUST@publicationtitle{攻读学位期间发表的学术论文}
296 }{
297   \def\HUST@ackname{Acknowledge}
298   \def\HUST@acknamenospace{Acknowledge}
299   \def\HUST@publicationtitle{Publication}
300 }
301
302 \ifthenelse{\equal{\HUST@category}{none}}{
303   \categoryname{}
304 }{}
305 \ifthenelse{\equal{\HUST@category}{literature-survey}}{
306   \ifthenelse{\equal{\HUST@language}{chinese}}
307     {\categoryname{文献综述}}

```

```

308   {\categoryname{Literature Survey}}
309 }{}
310 \ifthenelse{\equal{\HUST@category}{thesis-proposal}}{
311   \ifthenelse{\equal{\HUST@language}{chinese}}
312     {\categoryname{选题}}
313     {\categoryname{Thesis Proposal}}
314 }{}
315 \ifthenelse{\equal{\HUST@category}{academic-report}}{
316   \ifthenelse{\equal{\HUST@language}{chinese}}
317     {\categoryname{学术报告}}
318     {\categoryname{Academic Report}}
319 }{}
320 \ifthenelse{\equal{\HUST@category}{midterm-progress}}{
321   \ifthenelse{\equal{\HUST@language}{chinese}}
322     {\categoryname{论文中期进展}}
323     {\categoryname{Midterm Progress Report}}
324 }{}
325 \ifthenelse{\equal{\HUST@category}{practice}}{
326   \ifthenelse{\equal{\HUST@language}{chinese}}
327     {\categoryname{实践环节}}
328     {\categoryname{Practice Report}}
329 }{}
330
331 \ifthenelse{\equal{\HUST@language}{chinese}}{
332   \hypersetup{pdfsubject={研究生{\HUST@categoryname}报告}}
333 }{
334   \ifthenelse{\equal{\HUST@categoryname}{} }{
335     \hypersetup{pdfsubject={Postgraduate~Report}}
336   }{
337     \hypersetup{pdfsubject={Postgraduate~\HUST@categoryname}}
338   }
339 }

Set \listfigurename and \listtablename.
340 \def\listfigurename{\HUST@listfigurename}
341 \def\listtablename{\HUST@listtablename}

```

## 8 Style Setting

### 8.1 Equation Style

Allow long equation breaking between lines or pages.

```
342 \allowdisplaybreaks[4]
```

Set skip between equation and context.

```
343 \abovedisplayskip=10bp plus 2bp minus 2bp
```

```
344 \abovedisplayshortskip=10bp plus 2bp minus 2bp
```

```
345 \belowdisplayskip=\abovedisplayskip
```

```
346 \belowdisplayshortskip=\abovedisplayshortskip
```

Set equation numbering style.

```
347 \numberwithin{equation}{chapter}
```

### 8.2 Theorem Style

We use `amsthm` to handle the proof environment and use `ntheorem` to handle other theorem environments.

```
348 \theoremnumbering{arabic}
```

```
349 \ifthenelse{\equal{\HUST@language}{chinese}}{
```

```
350   \theoremseparator{: }
```

```
351   }{
```

```
352   \theoremseparator{:}
```

```
353 }
```

```
354 \theorempreskip{1.2ex plus 0ex minus 1ex}
```

```
355 \theorempostskip{1.2ex plus 0ex minus 1ex}
```

```
356 \theoremheaderfont{\normalfont\bfseries\HEI}
```

```
357 \theoremsymbol{}
```

```
358
```

```
359 \theoremstyle{definition}
```

```
360 \theorembodyfont{\normalfont}
```

```
361 \ifthenelse{\equal{\HUST@language}{chinese}}{
```

```
362   \newtheorem{definition}{定义}[chapter]
```

```
363   }{
```

```
364   \newtheorem{definition}{Definition}[chapter]
```

```
365 }
```

```
366
```

```
367 \theoremstyle{plain}
```

```
368 \theorembodyfont{\itshape}
```

```
369 \ifthenelse{\equal{\HUST@language}{chinese}}{
```

```

370 \newtheorem{proposition}{命题}[chapter]
371 \newtheorem{lemma}{引理}[chapter]
372 \newtheorem{theorem}{定理}[chapter]
373 \newtheorem{axiom}{公理}[chapter]
374 \newtheorem{corollary}{推论}[chapter]
375 \newtheorem{exercise}{练习}[chapter]
376 \newtheorem{example}{例}[chapter]
377 \def\proofname{\hei{证明}}
378 }{
379 \newtheorem{proposition}{Proposition}[chapter]
380 \newtheorem{lemma}{Lemma}[chapter]
381 \newtheorem{theorem}{Theorem}[chapter]
382 \newtheorem{axiom}{Axiom}[chapter]
383 \newtheorem{corollary}{Corollary}[chapter]
384 \newtheorem{exercise}{Exercise}[chapter]
385 \newtheorem{example}{Example}[chapter]
386 \def\proofname{\textbf{Proof}}
387 }

```

### 8.3 Floating Objects Style

Set the skip to the context for floating object with argument ‘h’.

```

388 \setlength{\intextsep}{0.7\baselineskip plus 0.1\baselineskip minus 0.1\baselineskip}

```

Set the skip to the context for top or bottom floating object.

```

389 \setlength{\textfloatsep}{0.8\baselineskip plus 0.1\baselineskip minus 0.2\baselineskip}

```

Set the fraction of floating object. Make the fraction less crowded than default value to prevent floating object occupying too much space.

```

390 \renewcommand{\textfraction}{0.15}
391 \renewcommand{\topfraction}{0.85}
392 \renewcommand{\bottomfraction}{0.65}
393 \renewcommand{\floatpagefraction}{0.60}

```

### 8.4 Table Style

`\tabincell` A command make it easier to insert a new table into an existing cell.

```

394 \newcommand{\tabincell}[2]{\begin{tabular}{@{}#1@{}}#2\end{tabular}}

```

*(End definition for \tabincell. This function is documented on page ??.)*



To prevent `\cline` breaking page in **longtable** environment, use in this way: `\table content\*\ \nopagebreak \cline{i-j}`<sup>3</sup>

```

395 \def\@cline#1-#2\@nil{%
396   \omit
397   \@multicnt#1%
398   \advance\@multispan\m@ne
399   \ifnum\@multicnt=\@ne\@firstofone{&\omit}\fi
400   \@multicnt#2%
401   \advance\@multicnt-#1%
402   \advance\@multispan\@ne
403   \leaders\hrule\@height\arrayrulewidth\hfill
404   \cr
405   \noalign{\nobreak\vskip-\arrayrulewidth}}

```

Here we set the global font setting (font size: 11pt and line spread: 1.4) for tables. But first we will declare a variable to determine whether table global font setting is activated.

```

406 \newif\ifHUST@useoldtabular
407 \HUST@useoldtabularfalse

```

**TurnOffTabFontSetting** Use `\TurnOffTabFontSetting` to deactivate global font setting.

```

408 \def\TurnOffTabFontSetting{\HUST@useoldtabulartrue}

```

*(End definition for \TurnOffTabFontSetting. This function is documented on page 15.)*

**TurnOnTabFontSetting** Use `\TurnOnTabFontSetting` to activate global font setting.

```

409 \def\TurnOnTabFontSetting{\HUST@useoldtabularfalse}

```

*(End definition for \TurnOnTabFontSetting. This function is documented on page 15.)*

Hook the **tabular**, **tabularx** and **longtable** environment to imply the global font setting.

```

410 \AtBeginEnvironment{tabular}{
411   \ifHUST@useoldtabular\else
412     \fontsize{11pt}{15.4pt}\selectfont
413   \fi
414 }
415 \AtBeginEnvironment{tabularx}{
416   \ifHUST@useoldtabular\else
417     \fontsize{11pt}{15.4pt}\selectfont
418   \fi

```

---

<sup>3</sup>Reference:<http://tex.stackexchange.com/questions/52100/longtable-multirow-problem-with-cline-and-nopagebreak>

```

419 }
420 \AtBeginEnvironment{longtable}{
421   \ifHUST@useoldtabular\else
422     \fontsize{11pt}{15.4pt}\selectfont
423   \fi
424 }

```

## 8.5 Caption Style

Set caption font size as 11pt, use hang format, remove ‘:’ after number and set the skip between context as 12pt.

```

425 \DeclareCaptionFont{HUST@captionfont}{\fontsize{11pt}{14.3pt}\selectfont}
426 \DeclareCaptionLabelFormat{HUST@caplabel}{#1~#2}
427 \captionsetup{
428   font=HUST@captionfont,
429   labelformat=HUST@caplabel,
430   format=hang,
431   labelsep=quad,
432   skip=12pt
433 }

```

Set figure and table numbering style.

```

434 \renewcommand{\thetable}{\arabic{chapter}.\arabic{table}}
435 \renewcommand{\thefigure}{\arabic{chapter}-\arabic{figure}}

```

## 8.6 Code Highlight Style

```

436 \definecolor{HUST@lstgreen}{rgb}{0,0.6,0}
437 \definecolor{HUST@lstmauve}{rgb}{0.58,0,0.82}
438
439 \lstset{
440   basicstyle=\footnotesize\ttfamily\linespread{1}\selectfont\FANGSONG,
441   keywordstyle=\color{blue}\bfseries,
442   commentstyle=\color{HUST@lstgreen}\itshape\KAI,
443   stringstyle=\color{HUST@lstmauve},
444   showspaces=false,
445   showstringspaces=false,
446   showtabs=false,
447   numbers=left,
448   numberstyle=\tiny\color{black},
449   frame=lines,
450   rulecolor=\color{black},

```

```

451 breaklines=true
452 }

```

## 8.7 Section Title Style

Set the numbering depth for section.

```

453 \setcounter{secnumdepth}{3}

```

Chapter title format and spacing setting.

```

454 \titleformat{\chapter}
455 {
456     \bfseries
457     \HEI
458     \centering
459     \fontsize{18pt}{23.4pt}\selectfont
460 }
461 {
462     \ifthenelse{\equal{\HUST@language}{chinese}}
463     {\zhnumber{\thechapter}}
464     {Chapter~\thechapter}
465 }
466 {1em}
467 {}
468 \titlespacing*{\chapter}{0pt}{0pt}{20pt}

```

Section title format and spacing setting.

```

469 \titleformat*{\section}{\bfseries\HEI\fontsize{16pt}{20.8pt}\selectfont}
470 \titlespacing*{\section}{0pt}{18pt}{6pt}

```

Subsection title format and spacing setting.

```

471 \titleformat*{\subsection}{\bfseries\HEI\fontsize{14pt}{18.2pt}\selectfont}
472 \titlespacing*{\subsection}{0pt}{12pt}{6pt}

```

Subsubsection title format and spacing setting.

```

473 \titleformat*{\subsubsection}{\bfseries\HEI\fontsize{13pt}{16.9pt}\selectfont}
474 \titlespacing*{\subsubsection}{0pt}{12pt}{6pt}

```

## 8.8 TOC Style

TOC depth.

```

475 \setcounter{tocdepth}{1}

```

TOC right margin.

```

476 \contentsmargin{2.0em}

```

Remove vertical space between two continues chapter entries. <sup>4</sup>

```
477 \newskip\HUST@oldcftbeforechapskip
478 \HUST@oldcftbeforechapskip=\cftbeforechapskip
479 \newskip\HUST@oldcftbeforesecskip
480 \HUST@oldcftbeforesecskip=\cftbeforesecskip
481 \let\HUST@oldl@chapter\l@chapter
482 \let\HUST@oldl@section\l@section
483 \let\HUST@oldl@subsection\l@subsection
484 \def\l@chapter#1#2{\HUST@oldl@chapter{#1}{#2}\cftbeforechapskip=3pt}
485 \def\l@section#1#2{\HUST@oldl@section{#1}{#2}\cftbeforechapskip=\HUST@oldcftbeforech
486 \def\l@subsection#1#2{\HUST@oldl@subsection{#1}{#2}\cftbeforesecskip=\HUST@oldcftbef
```

Set LOF LOT style. <sup>5</sup>

```
487 \renewcommand*\cftfigpresnum{\figurename~}
488 \newlength{\HUST@cftfignumwidth@tmp}
489 \settowidth{\HUST@cftfignumwidth@tmp}{\cftfigpresnum}
490 \addtolength{\cftfignumwidth}{\HUST@cftfignumwidth@tmp}
491 \renewcommand{\cftfigaftersnumb}{\quad~}
492 \renewcommand*\cfttabpresnum{\tablename~}
493 \newlength{\HUST@cfttabnumwidth@tmp}
494 \settowidth{\HUST@cfttabnumwidth@tmp}{\cfttabpresnum}
495 \addtolength{\cfttabnumwidth}{\HUST@cfttabnumwidth@tmp}
496 \renewcommand{\cfttabaftersnumb}{\quad~}
```

## 8.9 Head & Foot Style

```
497 \let\ps@plain\ps@fancy
498 \pagestyle{fancy}
499 \fancyhf{}
500 \renewcommand{\headrulewidth}{0pt}
501 \renewcommand{\footrulewidth}{0pt}
502 \ifthenelse{\equal{\HUST@language}{english}}{
503   \fancyfoot[C]{\thepage}
504 }{
505   \ifHUST@finalformat
506     \fancyfoot[C]{\thepage}
507   \else
508     \fancyhead[C]{
509       \hei{\fontsize{14pt}{18.2pt}\selectfont\HUST@headcontent}
```

---

<sup>4</sup>Reference:<http://tex.stackexchange.com/questions/89103/remove-vertical-space-between-two-chapters-in-table-of-contents-in-latex>

<sup>5</sup>Reference:<http://www.latex-community.org/viewtopic.php?f=5&t=1838>

```

510     \vskip 0.3\normalbaselineskip
511     \hrule width \textwidth height 0.4pt
512   }
513   \fancyfoot[C]{
514     \hrule width \textwidth height 0.4pt
515     \vskip 0.3\normalbaselineskip
516     \thepage
517   }
518   \fi
519 }

```

## 8.10 List Environment Style

```

520 \setlist{noitemsep,partopsep=0pt,topsep=.8ex}
521 \setlist[1]{labelindent=\parindent}
522 \setlist[enumerate,1]{label=\arabic*.,ref=\arabic*}
523 \setlist[enumerate,2]{label*=\arabic*,ref=\theenumi.\arabic*}
524 \setlist[enumerate,3]{label=\emph{\alph*}},ref=\theenumii\emph{\alph*}}
525 \setlist[description]{font=\bfseries\HEI}

```

## 8.11 Footnote Style

```

526 \MakePerPage{footnote}

```

# 9 Specical Page

```

\frontmatter
\mainmatter527 \def\frontmatter{
\backmatter528 \clearpage
529   \@mainmatterfalse
530   \pagenumbering{Roman}
531 }
532 \def\mainmatter{
533   \clearpage
534   \@mainmattertrue
535   \pagenumbering{arabic}
536 }
537 \def\backmatter{
538   \clearpage
539   \@mainmatterfalse
540   \settocdepth{chapter}
541   \hypersetup{bookmarksopenlevel=0}
542 }

```

(End definition for \frontmatter, \mainmatter, and \backmatter. These functions are documented on page 14.)

Chinese title page.

```

543 \def\HUST@zhtitlepage{
544   \begin{center}
545     \null\vskip 1cm
546     \includegraphics[width=.5\textwidth]{hust-title.pdf} \\\[0.8cm]
547     \parbox[t][][t]{\textwidth}{
548       \centering
549       \fontsize{22pt}{33.0pt}\selectfont
550       \HEI
551       \ifthenelse{\equal{\HUST@categoryname}{}}{
552         \ziju{8pt}{研究生 ( ~\hspace{6em}~) 报告}
553       }{
554         \ziju{8pt}{研究生 ( \HUST@categoryname) 报告}
555       }
556     }
557     \vskip 0.8cm
558     \parbox[t][][t]{\textwidth}{
559       \centering
560       \fontsize{18pt}{27.0pt}\selectfont
561       \ifthenelse{\equal{\HUST@title}{}}{
562         \hei{题目: ~\hspace{13em}}
563       }{
564         \hei{题目: ~\HUST@title}
565       }
566     }
567     \vfill
568     \parbox[t][][t]{\textwidth}{
569       \centering
570       \TurnOffTabFontSetting
571       \fontsize{16pt}{24.0pt}\selectfont
572       \begin{tabular}{p{6em}@{\hspace{1em}}l}
573         {{学}\hfill{号}} & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}\hspace{-10em}\hfill}
574         {{姓}\hfill{名}} & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}\hspace{-10em}\hfill}
575         {{专}\hfill{业}} & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}\hspace{-10em}\hfill}
576         {{指}\hfill{导}\hfill{教}\hfill{师}} & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}\hfill}
577         {院(系、所)} & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}\hspace{-10em}\hfill}\HUST@
578       \end{tabular}
579       \TurnOnTabFontSetting
580     }

```

```

581 \vskip 2cm
582 \parbox[t] [] [t]{\textwidth}{
583   \centering
584   \fontsize{16pt}{24.0pt}\selectfont
585   {华中科技大学研究生院制}
586 }
587 \end{center}
588 }

    English title page.
589 \def\HUST@entitlepage{
590   \begin{center}
591     \null\vskip 1cm
592     \parbox[t] [] [t]{\textwidth}{
593       \centering
594       \fontsize{20pt}{30.0pt}\selectfont
595       \scshape
596       Huazhong University of Science and Technology
597     }
598     \vskip 0.8cm
599     \parbox[t] [] [t]{\textwidth}{
600       \centering
601       \fontsize{20pt}{30.0pt}\selectfont
602       \scshape
603       \ifthenelse{\equal{\HUST@categoryname}{}}{
604         Postgraduate~\hspace{6em}~Report
605       }{
606         Postgraduate~\HUST@categoryname
607       }
608     }
609     \vskip 0.8cm
610     \parbox[t] [] [t]{\textwidth}{
611       \centering
612       \fontsize{18pt}{27.0pt}\selectfont
613       \bfseries
614       \ifthenelse{\equal{\HUST@title}{}}{
615         Title:~\hspace{13em}
616       }{
617         Title:~\HUST@title
618       }
619     }
620     \vfill

```

```

621 \parbox[t][t]{\textwidth}{
622   \centering
623   \TurnOffTabFontSetting
624   \fontsize{16pt}{24.0pt}\selectfont
625   \begin{tabular}{p{5em}@{\~}l}
626     {Student ID} & \makebox[16em][l]{\rule[-2.0pt]{16em}{1pt}\hspace{-16em}\hfill\}
627     {Name} & \makebox[16em][l]{\rule[-2.0pt]{16em}{1pt}\hspace{-16em}\hfill\HUST@
628     {Major} & \makebox[16em][l]{\rule[-2.0pt]{16em}{1pt}\hspace{-16em}\hfill\HUST@
629     {Advisor} & \makebox[16em][l]{\rule[-2.0pt]{16em}{1pt}\hspace{-16em}\hfill\HUS
630     {Department} & \makebox[16em][l]{\rule[-2.0pt]{16em}{1pt}\hspace{-16em}\hfill\}
631   \end{tabular}
632   \TurnOnTabFontSetting
633 }
634 \vskip 2cm
635 \parbox[t][t]{\textwidth}{
636   \centering
637   \fontsize{16pt}{24.0pt}\selectfont
638   Graduate School\
639   Huazhong University of Science~\char38~Technology
640 }
641 \end{center}
642 }

```

Chinese note page.

```

643 \def\HUST@zhnotepage{
644   \null\vskip 1cm
645   \begin{center}
646     \ziju{1em}{\hei{\fontsize{18pt}{27.0pt}\selectfont 填表注意事项}}
647   \end{center}
648   \vskip 1.2ex
649   \begingroup
650   \fontsize{14pt}{21.0pt}\selectfont
651   \ifthenelse{\equal{\HUST@category}{practice}}{
652     \begin{enumerate}
653       \renewcommand{\labelenumi}{\zhnumber{\theenumi}、}
654       \item 本表适用于攻读专业硕士学位研究生实践环节报告，文献阅读与选题
        报告等。
655       \item 以上各报告内容及要求由相关院（系、所）做具体要求。
656       \item 以上各报告均须存入研究生个人学籍档案。
657       \item 本表填写要求文句通顺、内容明确、字迹工整。
658     \end{enumerate}
659   }{

```



```

660 \begin{enumerate}
661 \renewcommand{\labelenumi}{\zhnumber{\theenumi}、}
662 \item 本表适用于攻读硕士学位研究生选题报告、学术报告，攻读博士学位
研究生文献综述、选题报告、论文中期进展报告、学术报告等。
663 \item 以上各报告内容及要求由相关院（系、所）做具体要求。
664 \item 以上各报告均须存入研究生个人学籍档案。
665 \item 本表填写要求文句通顺、内容明确、字迹工整。
666 \end{enumerate}
667 }
668 \endgroup
669 }

```

English note page.

```

670 \def\HUST@ennotepage{
671 \null\vskip 1cm
672 \begin{center}
673 \textbf{\fontsize{18pt}{27.0pt}\selectfont Note}
674 \end{center}
675 \vskip 1.2ex
676 \begingroup
677 \fontsize{14pt}{21.0pt}\selectfont
678 \ifthenelse{\equal{\HUST@category}{practice}}{
679 \begin{enumerate}
680 \item This form is applicable for master student's practice re-
port, literature survey and thesis proposal.
681 \item The contents and the requirements of the above reports are spec-
ified in details by each department, respectively.
682 \item All these reports will be filed into the graduate's aca-
demic archive.
683 \item This form should be filled with correct grammar, clear text and neat han-
writing.
684 \end{enumerate}
685 }{
686 \begin{enumerate}
687 \item This form is applicable for master student's thesis pro-
posal, academic report, and also applicable for Ph.D. student's lit-
erature survey, thesis proposal, midterm progress report and academic re-
port.
688 \item The contents and the requirements of the above reports are spec-
ified in details by each department, respectively.
689 \item All these reports will be filed into the graduate's aca-
demic archive.

```

```

690         \item This form should be filled with correct grammar, clear text and neat han
writing.
691     \end{enumerate}
692 }
693 \endgroup
694 }

```

**\maketitle** Commands to generate title page.

```

\makecover 695 \def\maketitle{
696     \let\HUST@oldthepage\thepage
697     \ifthenelse{\equal{\HUST@language}{chinese}}
698     {\def\thepage{封面}}
699     {\def\thepage{Titlepage}}
700     \begin{titlepage}
701         \thispagestyle{empty}
702         \ifthenelse{\equal{\HUST@language}{chinese}}
703         {\HUST@zhtitlepage}
704         {\HUST@entitlepage}
705     \end{titlepage}
706     \ifthenelse{\equal{\HUST@language}{chinese}}
707     {
708         \def\thepage{注意事项}
709         \thispagestyle{empty}
710         \HUST@zhnotepage
711     }{
712         \def\thepage{Note}
713         \thispagestyle{empty}
714         \HUST@ennotepage
715     }
716     \clearpage
717     \let\thepage\HUST@oldthepage
718     \setcounter{page}{1}
719 }
720 \let\makecover\maketitle

```

*(End definition for \maketitle and \makecover. These functions are documented on page 14.)*

Chinese abstract page.

```

721 \def\HUST@zhabstractpage{
722     \chapter*{\HUST@zhabstractname}
723     \begingroup
724     \fontsize{10.5pt}{13.7pt}\selectfont
725     \HUST@zhabstract \par

```

```

726 \vskip 1.2ex
727 \noindent\heif{\HUST@zhkeywordstitle}\hspace{.8em} \HUST@zhkeywords
728 \endgroup
729 }

English abstract page.
730 \def\HUST@enabstractpage{
731 \chapter*{\textsf{\HUST@enabstractname}}
732 \begingroup
733 \fontsize{10.5pt}{13.7pt}\selectfont
734 \HUST@enabstract \par
735 \vskip 1.2ex
736 \noindent\textbf{\HUST@enkeywordstitle}\hspace{.8em} \HUST@enkeywords
737 \endgroup
738 }

```

**\makeabstract** A command to generate abstract page.

```

739 \def\makeabstract{
740 \phantomsection
741 \ifthenelse{\equal{\HUST@language}{chinese}}{
742 \let\HUST@zhabstract\HUST@abstract
743 \let\HUST@zhkeywords\HUST@keywords
744 \addcontentsline{toc}{chapter}{\HUST@zhabstractnamenospace}
745 \HUST@zhabstractpage
746 \clearpage
747 }{
748 \let\HUST@enabstract\HUST@abstract
749 \let\HUST@enkeywords\HUST@keywords
750 \addcontentsline{toc}{chapter}{\HUST@enabstractname}
751 \HUST@enabstractpage
752 \clearpage
753 }
754 }

```

*(End definition for \makeabstract. This function is documented on page 14.)*

**\tableofcontents** A command to generate table of contents.

```

755 \let\HUST@tableofcontents\tableofcontents
756 \def\tableofcontents{
757 \ifthenelse{\equal{\HUST@language}{chinese}}{
758 \pdfbookmark{\contentsnamenospace}{\contentsnamenospace}
759 }{
760 \pdfbookmark{\contentsname}{\contentsname}

```

```

761 }
762 \HUST@tableofcontents
763 \clearpage
764 }

```

*(End definition for \tableofcontents. This function is documented on page 14.)*

**ack** A command to generate acknowledge page.

```

765 \newenvironment{ack}{
766   \clearpage
767   \phantomsection
768   \addcontentsline{toc}{chapter}{\HUST@acknamenospace}
769   \chapter*{\HUST@ackname}
770   \begingroup
771   \fontsize{10.5pt}{13.7pt}\selectfont
772 }{
773   \endgroup
774 }

```

**publications** A command to generate publications page.

```

775 \newenvironment{publications}{
776   \clearpage
777   \ifHUST@inappendix
778     \chapter{\HUST@publicationtitle}
779   \else
780     \phantomsection
781     \addcontentsline{toc}{chapter}{\HUST@publicationtitle}
782     \chapter*{\HUST@publicationtitle}
783   \fi
784   \begin{enumerate}[labelindent=0pt,label={[\arabic*]},itemsep=0.5ex]
785     \fontsize{10.5pt}{10.5pt}\selectfont
786   }{
787     \end{enumerate}
788 }

```

**\bibliography** A command to generate bibliography page. We use thuthesis.bst in **thuthesis** to typeset bibliography in Chinese language mode. And use **IEEEtran** in English language mode.

```

789 \ifthenelse{\equal{\HUST@language}{chinese}}{
790   \def\thudot{\unskip.}
791   \def\thumasterbib{[Master Thesis]}
792   \def\thuphdbib{[Doctor Thesis]}

```

```

793 \bibliographystyle{thuthesis}
794 }{
795 \bibliographystyle{IEEEtran}
796 }
797 \let\HUST@bibliography\bibliography
798 \def\bibliography#1{
799 \clearpage
800 \phantomsection
801 \addcontentsline{toc}{chapter}{\bibname}
802 \begingroup
803 \fontsize{10.5pt}{10.5pt}\selectfont
804 \setlength\bibsep{0.5ex}
805 \ifthenelse{equal{\HUST@language}{chinese}}{
806 \HUST@bibliography{#1}
807 }{
808 \HUST@bibliography{IEEEabrv,#1}
809 }
810 \endgroup
811 }

```

*(End definition for \bibliography. This function is documented on page 14.)*

appendix The appendix environment.

```

812 \newif\ifHUST@inappendix
813 \HUST@inappendixfalse
814 \newif\ifHUST@appendix@resetmainmatter
815 \HUST@appendix@resetmainmatterfalse
816 \renewenvironment{appendix}{
817 \if@mainmatter
818 \HUST@appendix@resetmainmatterfalse
819 \else
820 \HUST@appendix@resetmainmattertrue
821 \@mainmattertrue
822 \fi
823 \appendixtitletocon
824 \appendices
825 \titleformat{\chapter}
826 {
827 \bfseries\HEI
828 \centering
829 \fontsize{18pt}{23.4pt}\selectfont
830 }

```

```

831 {\appendixname\,\thechapter}
832 {1em}
833 {}
834 \HUST@inappendixtrue
835 }{
836 \endappendices
837 \HUST@inappendixfalse
838 \ifHUST@appendix@resetmainmatter
839 \HUST@appendix@resetmainmatterfalse
840 \@mainmatterfalse
841 \else\fi
842 }

```

**\listoffigures** A command to generate list of figures.

```

843 \let\HUST@listoffigures\listoffigures
844 \def\listoffigures{
845 \clearpage
846 \ifHUST@inappendix
847 \addtocounter{chapter}{1}
848 \def\listfigurename{\appendixname\,\thechapter\hspace{1em}\HUST@listfigurename}
849 \else
850 \def\listfigurename{\HUST@listfigurename}
851 \fi
852 \phantomsection
853 \ifHUST@inappendix
854 \addcontentsline{toc}{chapter}{\thechapter\hspace{1em}\HUST@listfigurename}
855 \else
856 \addcontentsline{toc}{chapter}{\listfigurename}
857 \fi
858 \HUST@listoffigures
859 \def\listfigurename{\HUST@listfigurename}
860 }

```

*(End definition for \listoffigures. This function is documented on page 14.)*

**\listoftables** A command to generate list of tables.

```

861 \let\HUST@listoftables\listoftables
862 \def\listoftables{
863 \clearpage
864 \ifHUST@inappendix
865 \addtocounter{chapter}{1}
866 \def\listtablename{\appendixname\,\thechapter\hspace{1em}\HUST@listtablename}

```

```

867 \else
868     \def\listtablename{\HUST@listtablename}
869 \fi
870 \phantomsection
871 \ifHUST@inappendix
872     \addcontentsline{toc}{chapter}{\thechapter\hspace{1em}\HUST@listtablename}
873 \else
874     \addcontentsline{toc}{chapter}{\listtablename}
875 \fi
876 \HUST@listoftables
877 \def\listtablename{\HUST@listtablename}
878 }

```

(End definition for \listoftables. This function is documented on page 14.)

Back cover.

```

879 \def\HUST@backcoverpage{
880     \ifthenelse{\equal{\HUST@category}{practice}}{
881         \ifthenelse{\equal{\HUST@language}{chinese}}{
882             \begin{center}
883                 \ziju{1em}{\hei{\fontsize{18pt}{27.0pt}\selectfont 导师评语}}
884             \end{center}
885             \vskip 1.5cm
886             实践是专业硕士学位的重要环节，是一门必修课，8 个学分，对于专业学位实
            践报告，要求字数 5000 以上，内容包括但不限于：参加实践的具体内容、完成的工
            作、收获和体会等，格式自定，但封面和封底需用“研究生实践环节报告”。
887             \vfill
888             \begin{flushleft}
889                 \fontsize{16pt}{24.0pt}\selectfont\HEI 导师评分：
890             \end{flushleft}
891             \vskip 2cm
892         }{
893             \begin{center}
894                 \textbf{\fontsize{18pt}{27.0pt}\selectfont Advisor Reviews}
895             \end{center}
896             \vskip 6ex
897             Practice is an important part of a master's degree. It's a re-
            quired course with eight credits. The practice report requires more than 5000 words.
            tent can be including but not limited to: the specific content dur-
            ing the participation in practice, the work which has been done, the har-
            vesting or the experience. The format is not set, but the font and back cover are re
            quired from ``graduate practice report''.

```

```

898     \vfill
899     \begin{flushleft}
900     \textbf{\fontsize{16pt}{24.0pt}\selectfont Score:}
901     \end{flushleft}
902     \vskip 2cm
903 }
904 }\null\vfill}
905 \begin{flushleft}
906     \TurnOffTabFontSetting
907     \fontsize{16pt}{24.0pt}\selectfont
908     \bfseries
909     \begin{tabular}{p{8em}@{\hspace{1em}}l}
910     \ifthenelse{\equal{\HUST@language}{chinese}}{研究生签字}{Student Sig-
nature}
911     & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}} \\[2ex]
912     \ifthenelse{\equal{\HUST@language}{chinese}}{指导教师签字}{Advisor Sig-
nature}
913     & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}} \\[2ex]
914     \ifthenelse{\equal{\HUST@language}{chinese}}{院（系、所）领导签字
}{Dean Signature}
915     & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}}
916     \end{tabular}
917     \TurnOnTabFontSetting
918 \end{flushleft}
919 \vskip 2cm
920 \begin{flushright}
921     \fontsize{16pt}{24.0pt}\selectfont
922     \bfseries
923     \ifthenelse{\equal{\HUST@language}{chinese}}{\hspace{2em}年\hspace{2em}
月\hspace{2em}日}{Date:\hspace{8em}}
924 \end{flushright}
925 \vskip 6ex
926 }
927 \AtEndDocument{
928     \clearpage
929     \let\HUST@oldthepage\thepage
930     \ifthenelse{\equal{\HUST@language}{chinese}}
931     {\def\thepage{封底}}
932     {\def\thepage{Back cover}}
933     \thispagestyle{empty}
934     \HUST@backcoverpage

```



```
935 \let\thepage\HUST@oldthepage
936 }
```

## 10 Other Command

`\email`

```
937 \def\email#1{
938   \href{mailto:#1}{\texttt{#1}}
939 }
```

*(End definition for \email. This function is documented on page 15.)*

```
940 %</class>
```

## V Index

The italic numbers denote the pages where the corresponding entry is described, numbers underlined point to the definition, all others indicate the places where it is used.

<b>A</b>	
<code>\abovedisplayshortskip</code> . . . . .	29, 29
<code>\abovedisplayskip</code> . . . . .	29, 29
<code>\abstract</code> . . . . .	5, 5, 12, 12, <u>25</u> , 25, 25
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