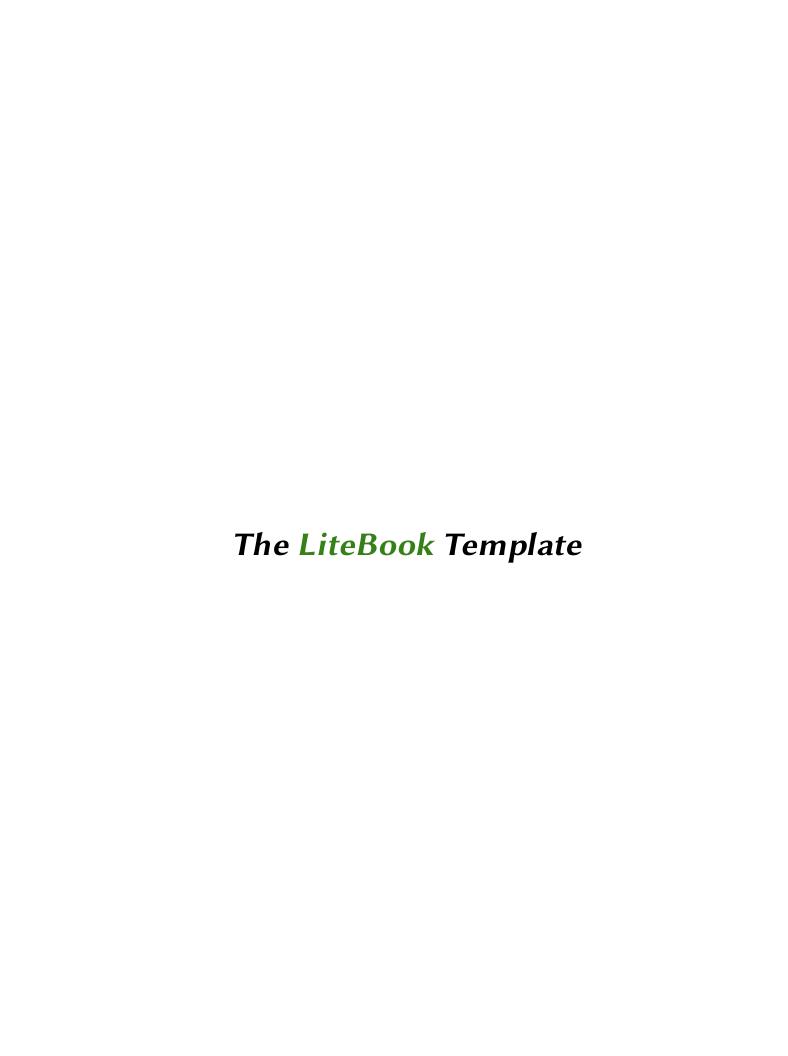
## The LiteBook Template

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# The LiteBook Template

#### 1.1 The purpose of this package

This template provides a fresh cover and chapter design for book. Welcome to feedback bugs or ideas via email xiamyphys@gmail.com or GitHub.

This template was originally used for the reformatting of the textbook *General Relativity, R. Wald*, you can download it from https://github.com/xiamyphys/LaTeX-General-Relativity-R.Wald.

#### 1.2 Installing LiteBook and loading it

For portable version, simply download latest litebook.cls file from GitHub or CTAN and save it under your working directory. This way of installation is simple and convenient, but you have to manually update .cls now and then.

However, I strongly suggest that you should use terminal/cmd to implement the commands to update all the packages (and install this package) to the latest version or switch to portable version instead

```
sudo tlmgr update --self --all
```

If you are in some areas with awful Internet environment (such as a), you can choose proper mirror source or use other means<sup>1</sup>. To learn more, please refer to How do I update my T<sub>E</sub>X distribution?

#### 1.3 Compatibility

The test environments are macOS + MacTeX 2024 / Overleaf and they all work fine for pdflaTeX and XqlaTeX compilers, Windows, Linux and Unix platforms compatibility unknown.

#### 1.4 Cover Information Settings

Just like the cover of this document, there are 5 lines of information on the cover and a cover image, the corresponding commands are

```
\title{The \pkg{LiteBook} Template} \subtitle{Version 0.1a \today}
\press{The University of Chicago Press} \author{Hsia Mingyu}
\bioinfo{Hangzhou Dianzi University} \cover{Beautiful-realities.jpeg}
```

Here, the same as the book class, the command title could not be omitted, or it will return an error, and there will be a warning if the command author is omitted.

<sup>&</sup>lt;sup>1</sup>Please comply with local network regulations.

#### 1.5 Preset packages and commands

This package has been preset with the following packages:

amsmath	amssymb	mathrsfs	esvect	physics2,fixdif	bm
derivative	cancel	extarrows	siunitx	nicefrac	nicematrix
booktabs	tabularx	diagbox	multicol	multirow	refstyle

You can click on them to go to the homepage to view the documentation.

And commands \i, \e, \T has been defined to input i, e in roman (non-italic) text and matrix transpose symbol T, which can help you typeset math quickly.

The template has been preset the following reference command with the refstyle package: \eqref{#1}, \figref{#1} and tabref{#1}, you can add other commands like these with the refstyle package.

#### 1.6 Preset Environments

The template has been preset the following environments with the amsthm package

\begin{theorem} A theorem environment. \end{theorem}	<b>Theorem 1.6.1.</b> A theorem environment.
\begin{example} An example environment. \end{example}	<b>Example.</b> An example environment.
\begin{problem} A problem environment. \end{problem}	<b>Problem 1.</b> A problem environment.
\begin{solution} A solution environment. \end{solution}	Solution. A solution environment.

You can add other environments like these with the amsthm package.

#### 1.7 Equation Test

$$\left(\frac{1}{c^2}\frac{\partial^2}{\partial t^2} - \nabla^2 + \frac{mc^2}{\hbar^2}\right)\psi(\mathbf{x}, t) = 0$$
(1.7.1)

The Klein-Gordon equation (1.7.1).

#### 1.8 Figure and Caption Side by Side Test

**Figure 1.1.** A diagram showing the causal structure of spacetime in special relativity. The "light cone" of p rather than a "surface of simultaneity" with p now plays a fundamental role in determining the causal relationship of p to other events.

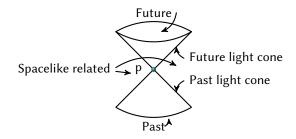


Figure 1.1 shows the Light Cone.

#### 1.9 Warnings

Due to the template has used the FadingImage package to add a fading image on the cover, when you use the pdfIFTEX compiler, should run it for two times or the cover image will not appear on the correct location, also, there will be a double question mark when referring to labels.

#### A Test of Unnumbered Chapter

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