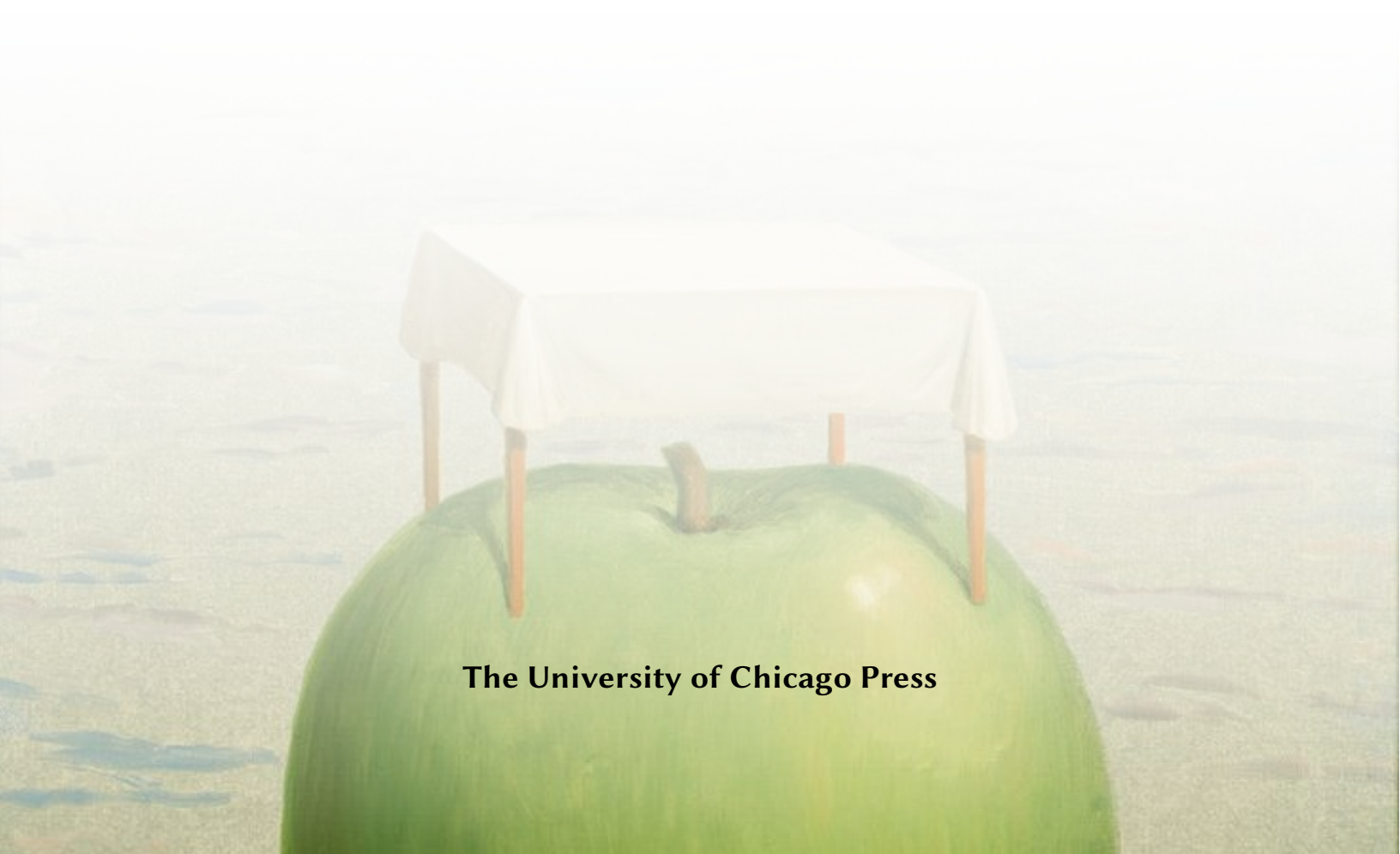


# The **LiteBook** Template

**Version 0.1b 2024/03/10**

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**The University of Chicago Press**

# *The **LiteBook** Template*

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# 1 The LiteBook Template

CHAPTER

## 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](mailto: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 TeX distribution?](#)

## 1.3 Compatibility

The test environments are macOS + MacTeX 2024 / Overleaf and they all work fine for pdfLaTeX and XeLaTeX 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 0.1b \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>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	tcolorbox	fontawesome5

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 via `refstyle` package: `\eqref{#1}`, `\figref{#1}` and `tabref{#1}`, you can add other commands like these via `refstyle` package.

## 1.6 Preset Environments

The following environments has been preset, you can add other environments via the `amsthm` package.

**Definition 1.6.1.** A definition environment.

**Axiom 1.6.1.** An axiom environment.

**Theorem 1.6.1.** A theorem environment.

**Proposition 1.6.1.** A proposition environment.

**Lemma 1.6.1.** A lemma environment.

**Example.** An example environment.

**Corollary 1.6.1.** A corollary environment.

**Problem 1.** A problem environment.

**Postulate 1.6.1.** A postulate environment.

**Solution.** A solution environment.

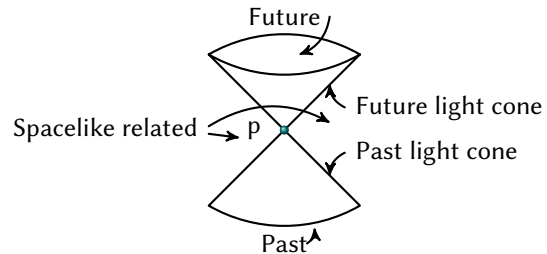
## 1.7 Equation Test

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

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.

# A Test of Unnumbered Chapter

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