

Materials That I Have Read All These Years

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1 Physics

1.1 经典力学

- 普通物理学教程：力学 (第二版), 漆安慎, 杜婵英. (在读)
- 新概念物理教程：力学 (第二版), 赵凯华, 罗蔚茵. (在读)
- *An Introduction to Mechanics*, 2nd, by Kleppner and Kolenkow. (在读)
- Physics.SE
 - Why does holding something up cost energy while no work is being done?
 - Who does work while walking?

1.2 热物理学

- 新概念物理教程：热学 (第二版), 赵凯华, 罗蔚茵. (在读)
- 热物理学基础, 包柯达. (在读)
- 热学, 秦允豪. (在读)
- *Heat and Thermodynamics*, 7th edition, by Zemansky. (在读)
- *Thermodynamics and An Introduction To Thermostatistics*, 2nd edition, by Callen. (在读)

1.3 电磁理论

1. 普通物理学教程：电磁学, 第二版, by 梁灿彬. (在读)

1.4 量子理论

- Physics.SE
 - Can someone please qualitatively explain unitary group from a physics perspective?

2 Mathematics

2.1 General Materials

- Wolfram MathWorld
- Wikipedia
- Mathematics Stackexchange
- Mathoverflow

2.2 分析学

- 高等数学, 同济第六版.
- 数学分析新讲, 第一册, 张筑生. (在读)

3 Computer Science

3.1 Algorithm

1. Introduction to Algorithms, by Cormen. (在读)

3.2 LaTeX

- LaTeX Wikibook.
- LaTeX Stackexchange
- The Not So Short Introduction to LaTeX 2 ϵ .
- arara user manual. (无笔记)
- listings package documentation. (未读完)
- geometry package documentation.
- pdfpages package documentation. (未读完)
- amsmath package documentation.
- siunitx package documentation.
- lnotes, by 包太雷.
- lnotes2, by 包太雷.
- booktabs package documentation.
- TeX.SE
 - Spacing around align environments
 - the TeXbook. (在读)
 - pgfmanual. (在读)
 - enumitem package documentation. (在读)
 - cool package doc & demo. (在读)

3.3 Vim

- Vim tutor.
- Vim-LaTeX reference. (剩下后面需要理解 vimscript 的部分)
- Vim-LaTeX reference card.
- *Practical Vim*, by Drew Neil. (在读)
- `usr_40` (在读)
- Vim Tips wiki
- Vim questions on StackOverflow

3.4 Mathematica

- *Mathematica* 与大学物理计算.
- *The Mathematica Book*, by Stephen Wolfram. (在读)
- Mathematica virtual book—help doc. (在读)
- Mathematica Cookbook, by Sal Mangano (在读)
- Power programming with Mathematica: The kernel. (在读)
- Video tutorials: Wolfram Screencast & Video Gallery (在读)
- Wolfram Demonstrations Project (在读)
- 修改默认的 brackets 插入快捷键使得可以 wrap text selection
- Mathematica Stackexchange:
 - What are the most common pitfalls awaiting new users?
 - Can one identify the design patterns of Mathematica?
 - Using the Mathematica front-end efficiently for editing notebooks
 - Is there a way to separate variables between multiple notebooks?
 - How draw a line dynamically using manipulate?
- Wolfram blog:
 - 10 Tips for Writing Fast Mathematica Code

3.5 C

1. C Primer Plus, 6th edition. (在读)
2. Peter's gdb tutorial. (无笔记)
3. gdb manual (在读)

3.6 Unix

3.6.1 General Overview

1. Learning the Unix Operating System (无笔记)
2. Unix in a nutshell (在读)

3.6.2 Shell Programming

1. customize terminal prompt (无笔记)
2. Advanced Bash-Scripting Guide, by Mendel Cooper (在读)
3. Learning the Bash Shell (在读)

3.6.3 Regular Expression

1. Mastering Regular Expression (在读)

3.7 VCS

1. Git Pro, 2nd edition. (在读)

3.8 Computer System

1. Computer system: A programmer's perspective. (在读)

3.9 Network Programming

1. Sams Teach Yourself TCP/IP in 24 Hours (在读)

3.10 Database

1. PostgreSQL Documentation (在读)

3.11 Markdown

1. markdown documentation (无笔记)
2. markdown extra documentation (在读)

4 English Learning

4.1 文法

- 文法俱乐部, by 旋元佑. (待复习整理)
- 赖世雄经典语法 (在读)
- 赖氏英文文法 (在读)

4.2 词汇

- 拓词上的几本词库, 考研词库, 六级词库, 等等.
- 欧陆词典, 配合许多词典文件.
- 字源大挪移, by 旋元佑. (在读)
- Google search, 查询字源.

4.3 修辞

5 Not so important

5.1 Science Fiction

1. Ender's Game.

5.2 Fantasy

1. Under the Dome

5.3 History

5.4 Miscellaneous

- 北京 — 一座失去建筑哲学的城市, by 王博.
- Alice's Adventures in Wonderland, by Charles Lutwidge Dodgson.
- Steve Jobs, by Walter Isaacson.