TexEdBook

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Forward

This is *not* a full thesis template! It only demonstrates how to create per-chapter references using the chapterbib package with BibTeX. (Do not use with BibLaTeX!)

Each chapter must be in its own .tex file and include-d into the main .tex file. If compiling on your own machine, run bibtex on *each* generated .aux file, before running pdflatex twice more. (These are done automatically on Overleaf.)

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Interactive Content

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1.1 Videos

Digital Content 1.1: Video

Calculus | This video by the Three Blue One Brown YouTube channel give a wonderful introduction to the core concepts of Calculus

1.2 Coding

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```
import numpy as np
import matplotlib.pyplot as plt

x = np.linspace(0,2)
y1 = np.exp(x)
y2 = x + 1

plt.plot(x, y1, label=r"$y_1=e^x$")
plt.plot(x, y2, label=r"$y_2 = x + 1$")
plt.legend()
plt.xlim(0,1)
```

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```
plt.ylim(0,3)
plt.xlabel('x')
plt.ylabel('y')
plt.show()
```

Digital Content 1.2: Python coding environment

Sample Trinket | This is a Python3 coding evironment powered by Trinket.

1.3 Live Math

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Digital Content 1.3: CalcHub Workspace

Sample CalcHub Workspace | At this link you can find and interactive workspace for working out live math problems.

Bibliography

Equations and Figures

2.1 Equations

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$$\kappa_{\rm pg} = \frac{1}{3} \int_{0}^{\omega_{\rm max}} C(\omega) v_{\rm g}(\omega)^2 \tau(\omega) d\omega. \tag{2.1}$$

Test. Etiam ullamcorper, nunc a accumsan adipiscing, turpis odio bibendum erat, id convallis magna eros nec metus. Sed vel ligula justo, sit amet vestibulum dolor. Sed vitae augue sit amet magna ullamcorper suscipit. Quisque dictum ipsum a sapien egestas facilisis.

2.2 Figure

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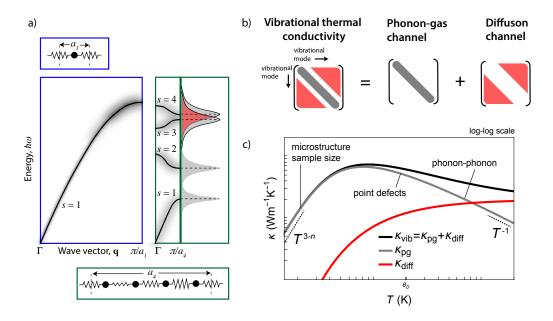


Figure 2.1: Figure Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis risus ante, auctor et pulvinar non, posuere ac lacus. Praesent egestas nisi id metus rhoncus ac lobortis sem hendrerit.

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[1] Frank Mittelbach, Michel Goossens, Johannes Braams, David Carlisle, and Chris Rowley. *The LATEX Companion*. Addison-Wesley Series on Tools and Techniques for Computer Typesetting. Addison-Wesley, Boston, MA, USA, 2nd edition, 2004.

Lists and Tables

"This is a quote and I don't know who said this."

- Author's name, Source of this quote

3.1 Lists

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3.1.1 Numbered list

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- 3. Curabitur posuere erat dignissim ligula euismod ut euismod nisi.
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- 5. Mauris sit amet nulla mi, vitae rutrum ante.
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3.1.2 **Bulleted list**

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3.2Tables

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	1	able 3.1: Sample table
S. No.	Column#1	Thermal conductivity.

S. No.	Column#1	Thermal conductivity, $\kappa_{\rm pg}$	Column#3
1	50	837	970
2	47	877	230
3	31	25	415
4	35	144	2356
5	45	300	556

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[1] Atsuko Ohno, Satoshi Sasaki, Eiji Nishibori, Shinobu Aoyagi, Makoto Sakata, and Bo Brummerstedt Iversen. X-ray charge density study of chemical bonding in skutterudite CoSb₃. Physical Review B, 76(6):064119, 2007.

Afterword

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