TexEdBook

Riley C. Hanus

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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

```
Multimedia content: YouTube Video

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)
plt.ylim(0,3)
```

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```
plt.xlabel('x')
plt.ylabel('y')

plt.show()

Interactive content: Trinket python environment

Sample Trinket
```

1.3 Live Math

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```
Interactive content: CalcHub Workspace
Sample CalcHub Workspace
```

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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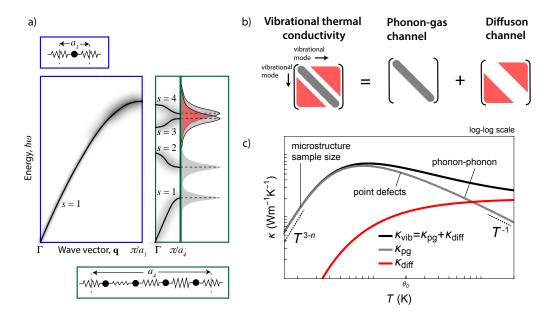


Figure 2.1: Figure Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis risus ante, auctor et pulvinar non, posuere ac lacus. Praesent egestas nisi id metus rhoncus ac lobortis sem hendrerit.

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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. Curabitur posuere erat dignissim ligula euismod ut euismod nisi.
- 4. Fusce vulputate facilisis neque, et ornare mauris mattis vel.
- 5. Mauris sit amet nulla mi, vitae rutrum ante.
- 6. Maecenas quis nulla risus, vel tincidunt ligula.
- 7. Nullam ac enim neque, non dapibus mauris.
- 8. Integer volutpat leo a orci suscipit eget rhoncus urna eleifend.

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3.1.2 Bulleted list

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- Maecenas quis nulla risus, vel tincidunt ligula.
- Nullam ac enim neque, non dapibus mauris.

3.2 Tables

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Table 3.1: Sample table

Table 3.1. Sample table					
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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