ANALYSIS ON SOME DATA USING SOME TECHNIQUE

A Dissertation Presented for the
Doctor of Philosophy
Degree
The University of Tennessee, Knoxville

Student A. Name
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ABSTRACT

The content of the abstract is determined by the student and committee, the following information is appropriate: (1) a short statement concerning the area of investigation, (2) a brief discussion of methods and procedures used in gathering the data, (3) a condensed summary of the findings, and/or (4) conclusions reached in the study.

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PREFACE

A personal statement about the purpose and scope of the thesis/dissertation could be included in the preface. The tone of the preface, however, must be academic and appropriate to scholarly work. This page is optional.

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LIST OF ABBREVIATIONS

AAA	American Anthropology Association
APA	American Psychological Association
IEEE	Institute of Electrical and Electronics Engineers
AI	Artificial intelligence
CNN	Convolutional neural networks
SaaS	Software as a service
R&D	Research and development
UTK	University of Tennessee, Knoxville

LIST OF SYMBOLS

ϕ_p	Horizontal stress
β	Angle between the normal and horizontal planes
π	Pi
i	Imaginary unit
P_2	Universal parabolic constant
t_i	Time at step i
$\Delta\mu$	Change in energy

CHAPTER 1
INTRODUCTION

This is a guide to an unofficial thesis/dissertation template for the University of Tennessee. It is based on the 2017 *Guide to the Preparation of Theses and Dissertations* but can be easily altered as the guidelines are changed. This template requires a basic knowledge of LaTeX and should cover the basic requirements in terms of required packages and functionality for the University of Tennessee. This is a note with custom color. This is a note with default color. Figures should have at least 1.5in between text.

Not sure when website specifications incomprehensibilities were updated.

This is a margin note used during revisions, not the final draft.

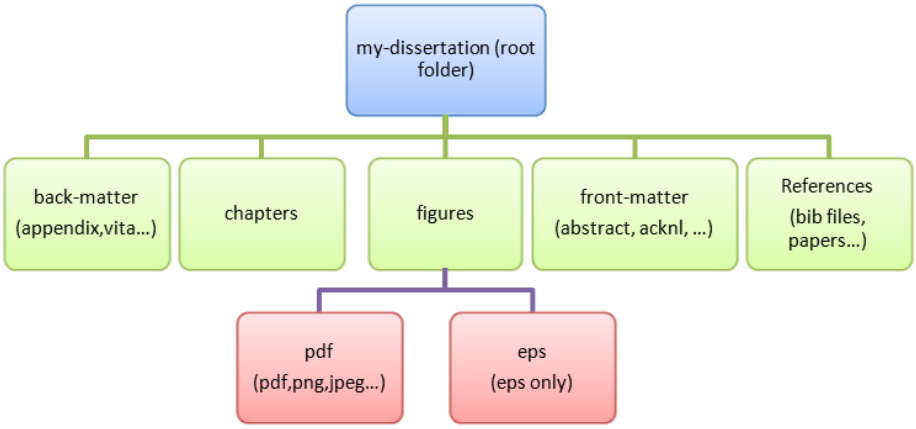


Figure 1-1. UT thesis template folder structure. The main LaTeX file and BibTeX file are in the top directory. All other files are placed in any of the four folders (back-matter, chapters, figures, front-matter).

The general structure of this template is based on the tree shown in Figure 1-1. The titles of the folders are self descriptive and should guide you to proper file placement. Note that this is only a suggested model that could be modified to fit your own organizational structure.

1.1 A Section multiple lines

This is a paragraph found in a section part.

1.1.1 A subsection

This is a paragraph found in a subsection part. For more information, check: http://en.wikibooks.org/wiki/LaTeX/Floats,_Figures_and_Captions

1.1.2 Another subsection

This is a paragraph found in another subsection part.

1.1.2.1 A subsubsection

This is a paragraph found in a subsubsection part.

1.1.2.2 A second subsubsection

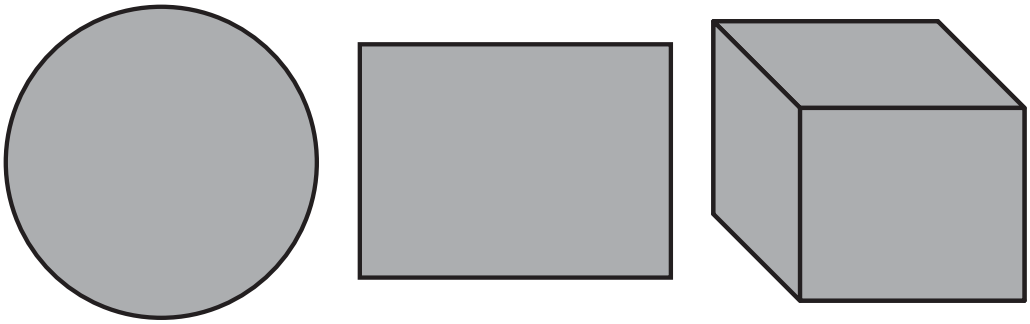
This is a paragraph found in another subsubsection part. Refer to section A.1 in Appendix A for further information.

1.2 Multipart figures

This is a paragraph found in another section part.

For multipart figures (e.g., Figure 1-2b), you need to use the package "subcaption".

Discussing some analysis results from Table 1-1. Use cref/Cref for multiple references Figures 1-2a to 1-2c. It all started at section 1.1 and never ended ...



(a) Circle (b) Rectangle (c) Cube

Figure 1-2. Geometric shapes, each presented as a subfigure. (a) is a circle, (b) is a rectangle, and (c) is a cube.

Table 1-1. A multirow table example.

col1	**col2**	**col3**
Multiple rows	cell2	cell3
	cell5	cell6
	cell8	cell9

CHAPTER 2

EXPERIMENTS

This is a citation [1]. This is a very short guide to an unofficial thesis/dissertation template for the University of Tennessee[1]. It is based on the 2017[2] thesis specifications but can be easily altered as the guidelines are changed. This template requires a basic knowledge of LaTeX and should cover the basic requirements in terms of required packages and functionality.

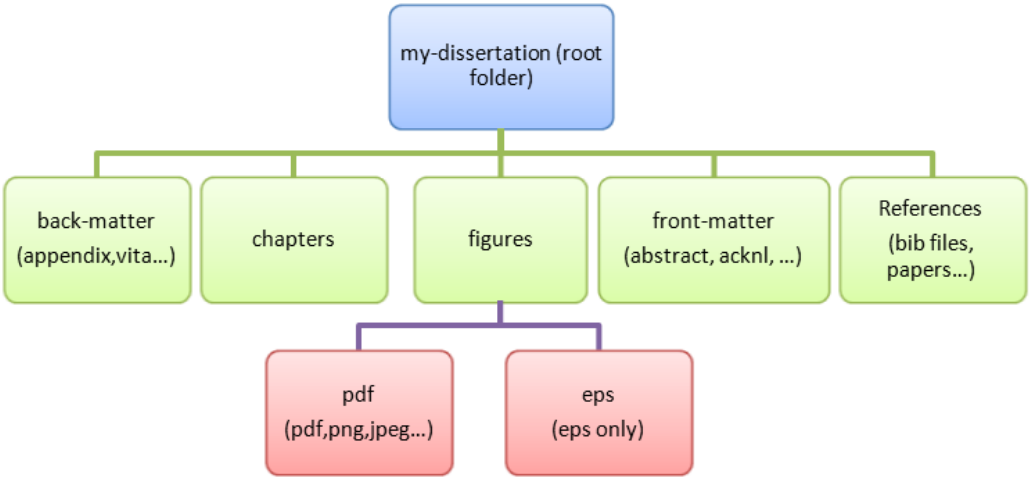


Figure 2-1. UT thesis template folder structure. The main LaTeX file and BibTeX file are in the top directory. All other files are placed in any of the four folders (back-matter, chapters, figures, front-matter).

Again, in Figure 2-1 is the folder structure.

[1] UTK is a public university in Knoxville, TN
[2] The 2017 template was based on a 2016 template

2.1 Details

$$die\ yield = wafer\ yield \times \frac{1}{\left(1 + \frac{defects\ per\ unit\ area \times die\ area}{N}\right)^{N}} \tag{2.1}$$

Use the die yield model to obtain equation 2.1.

My life summary is found in Chapter B.1.

These are multiple citations [2–5]. This is a citation [6]. This is a citation [7]. This is a citation [8]. This is a citation [9]. This is a citation [10]. This is a citation [11]. This is a citation [12]. This is a citation [13]. This is a citation [14]. This is a citation [15]. This is a citation [16].

CHAPTER 3

RESULTS

This is more text, see [17].

Table 3-1. A multirow table example.

col1	col2	col3
Multiple rows	cell2	cell3
	cell5	cell6
	cell8	cell9

Discussing some analysis results from Table 3-1.

3.1 Plots

(a) Circle (b) Rectangle

Figure 3-1. Geometric shapes, each presented as a subfigure. (a) is a circle and (b) is a rectangle

For multipart figures (e.g., Figure 3-1), you need to use the package “subcaption”.

CHAPTER 4
CONCLUSIONS

This is the last chapter and we can reference previous chapters, for example, Chapter 1 provided the introduction.

4.1 Future Work

A lot more can be done.

LIST OF REFERENCES

[1] H. Anzt, M. Kreutzer, E. Ponce, G. D. Peterson, G. Wellein, and J. Dongarra, "Optimization and performance evaluation of the IDR iterative Krylov solver on GPUs," *International Journal of High Performance Computing Applications*, 2016.

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[15] H. Anzt, E. Ponce, G. D. Peterson, and J. Dongarra, "GPU-accelerated co-design of induced dimension reduction: Algorithmic fusion and kernel overlap," in *Presentation at the 2nd International Workshop on Hardware-Software Co-Design for High Performance Computing (Co-HPC'15)*, (Austin, TX), Nov 2015.

[16] E. Ponce, "Session chair at the 2nd International Conference on Software Technology and Engineering (ICSTE'10), San Juan, PR," Oct 2010.

[17] H. Anzt, E. Ponce, G. D. Peterson, and J. Dongarra, "GPU-accelerated co-design of induced dimension reduction: Algorithmic fusion and kernel overlap," in *Proceedings of the 2nd International Workshop on Hardware-Software Co-Design for High Performance Computing (Co-HPC'15)*, ACM, 2015.

APPENDICES

APPENDIX A
SAFETY

Here is a math equation: $y = mx + b$
The above equation represents a line.

A.1 An appendix section

This is a section in Appendix A.

A.1.1 An appendix subsection

This is a subsection in Appendix A.

A.1.1.1 An appendix subsubsection

This is a subsubsection in Appendix A.

A.1.1.2 Another appendix subsubsection

This is another subsubsection in Appendix A.

APPENDIX B

SIMD

This is another appendix for testing format.

B.1 Another section

This is a section in Appendix B.

VITA

The vita should be written in narrative form, not resume or curriculum vitae form. It should contain appropriate academic and professional information about the author/student. Personal information, such as the student's address or phone number, should not be included.