

UNIVERSITY OF CALGARY

An Important Contribution to the Literature

by

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A THESIS

SUBMITTED TO THE FACULTY OF GRADUATE STUDIES
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DEGREE OF DOCTOR OF PHILOSOPHY

GRADUATE PROGRAM IN PHILOSOPHY

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Abstract

The abstract is a concise and accurate summary of the research contained in your thesis. It gives the reader a snapshot of your research by highlighting key points. It includes the problem, method of study, and general conclusion; relevant key words that will help people find your research. It must be no longer than 350 words (Note: hyphenated words or words separated by a slash are counted as two words). It must be double-spaced or one-half spaced, and not contain graphs, tables, or illustrations.

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For a traditional thesis requiring ethics approval, include the name of the board that approved the research project, the title of the project, and the number of the approval certificate. For example:

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Acknowledgments

The acknowledgments are a place for you to thank/recognize academics or organizations that supported you (remember you cannot make changes once your thesis is submitted, so be thoughtful!) You should include this when you want to acknowledge people who may or may not be formally recognized in your thesis elsewhere. People usually mentioned in the acknowledgments include your supervisor and committee, grant support, helpful fellow students, lab mates, or family members.

Since we're using `LaTeX` and the `memoir` package, we should thank Don Knuth, Leslie Lamport, and Peter Wilson.¹

¹These are the authors of [Knuth \(1986\)](#); [Lamport \(1986\)](#); [Wilson \(2016\)](#).

To mom.

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Chapter 1

Introduction

The last years of the eighteenth century are broken by a discontinuity similar to that which destroyed Renaissance thought at the beginning of the seventeenth.

Michael Foucault, *The Order of Things: An Archaeology of the Human Sciences*

The text above is an *epigraph*. In this typeface, you can have text in **boldface**, *italics*, ***bold italics***, *slanted*, and SMALL CAPS.

Adjust the commands in the preamble of the main file provided (that's `sample-thesis.tex`, which you should probably rename to something more descriptive, like `your-name-thesis.tex`) if you don't like how this page looks. E.g., you can provide other options for a different font, or remove the `manuscript` option for a smaller font (11 pt) and one-and-a-half

linespacing, for a neater, more compact look. See the README file or the comments in the main file for details.

The appearance of chapter and section heads, the table of contents, footnotes, epigraphs (like the one above), and many other book design elements are controlled by commands provided by the `memoir` class, which this thesis style uses. Consult the [memoir manual](#) if you want to change it. However, the standard layout, page numbering, table of contents, etc., as provided by the `ucalgmthesis` class complies with the requirements of the [University of Calgary thesis formatting guidelines](#) (July 13, 2018 version).

1.1 Literature Review

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Definition 1.1. A group G is said to be *abelian* (or *commutative*) if for every $a, b \in G$, $a \cdot b = b \cdot a$.

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1.2 Contributions of the Thesis

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A	B
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Table 1.1: Letters and numbers

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Chapter 2

Important Results

2.1 The first result

Theorem 2.1 (Residue Theorem). *Let f be analytic in the region G except for the isolated singularities a_1, a_2, \dots, a_m . If γ is a closed rectifiable curve in G which does not pass through any of the points a_k and if $\gamma \approx 0$ in G , then*

$$\frac{1}{2\pi i} \int_{\gamma} f = \sum_{k=1}^m n(\gamma; a_k) \operatorname{Res}(f; a_k).$$

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Figure 2.1: Circles and arrows

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2.2 The second result

The first half

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Notes

Chapter 1 Introduction

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Chapter 2 Important Results

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Appendix

An appendix is a way to include important information that would otherwise clutter up your thesis. It should be included when there is additional relevant information that won't fit in the body of your thesis. Any Appendix must also be mentioned in the body of your thesis (e.g., "For a full list of interview questions used, please see the [Appendix](#)"). If your thesis only has one appendix, it must be titled "Appendix." If your thesis has more than one appendix, add alphabetized letters, starting with "Appendix A." The following are examples of things you might include in appendices:

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3. Diagrams of equipment that you developed
4. Digital files and/or artwork digital models
5. Blank copies of questionnaires or surveys used in your research