



# **A Student's Guide to the Study, Practice, and Tools of Modern Mathematics (Discrete Mathematics and Its Applications)**

*Donald Bindner, Martin Erickson*

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**A Student's Guide to the Study, Practice, and Tools of Modern Mathematics** provides an accessible introduction to the world of mathematics. It offers tips on how to study and write mathematics as well as how to use various mathematical tools, from LaTeX and Beamer to *Mathematica*<sup>®</sup> and Maple<sup>™</sup> to MATLAB<sup>®</sup> and R. Along with a color insert, the text includes exercises and challenges to stimulate creativity and improve problem solving abilities.

The first section of the book covers issues pertaining to studying mathematics. The authors explain how to write mathematical proofs and papers, how to perform mathematical research, and how to give mathematical presentations.

The second section focuses on the use of mathematical tools for mathematical typesetting, generating data, finding patterns, and much more. The text describes how to compose a LaTeX file, give a presentation using Beamer, create mathematical diagrams, use computer algebra systems, and display ideas on a web page. The authors cover both popular commercial software programs and free and open source software, such as Linux and R.

Showing how to use technology to understand mathematics, this guide supports students on their way to becoming professional mathematicians. For beginning mathematics students, it helps them study for tests and write papers. As time progresses, the book aids them in performing advanced activities, such as computer programming, typesetting, and research.

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