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This book is an introduction to the language and standard proof methods of mathematics. It is a bridge from the computational courses (such as calculus or differential equations) that students typically encounter in their first year of college to a more abstract outlook. It lays a foundation for more theoretical courses such as topology, analysis and abstract algebra. Although it may be more meaningful to the student who has had some calculus, there is really no prerequisite other than a measure of mathematical maturity.

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This version of the primary text (published in 2014) adds a chapter of Sturm Liouville theory and problems to the current manuscript. This coverage creates a Boundary Value Problems version to add this coverage for instructors who look to offer it in the Ordinary Differential Equations course.

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The authors teach how to organize and structure mathematical thoughts, how to read and manipulate abstract definitions, and how to prove or refute proofs by effectively evaluating them. There is a large array of topics and many exercises.

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