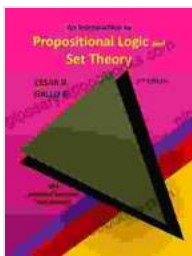


# An Introduction to Propositional Logic and Set Theory: Understanding Calculus

This book provides an accessible to the fundamental concepts of propositional logic and set theory, essential for understanding calculus.



## An Introduction to Propositional Logic and Set Theory (Understanding Calculus Book 1) by Diane Harte

★★★★☆ 4.5 out of 5

Language : English

File size : 8762 KB

Screen Reader : Supported

Print length : 429 pages

Lending : Enabled



Propositional logic is the study of the logical relationships between propositions, which are statements that can be either true or false. Set theory is the study of sets, which are collections of objects. Both propositional logic and set theory are essential for understanding the foundations of calculus.

The book begins with an to the basic concepts of propositional logic, including truth tables, logical operators, and logical equivalencies. It then moves on to a discussion of set theory, including the different types of sets, set operations, and the concept of cardinality.

The final chapters of the book apply the concepts of propositional logic and set theory to calculus. The book shows how to use propositional logic to

prove the existence and uniqueness of limits, and how to use set theory to define the derivative and integral.

This book is an essential resource for anyone who wants to learn the foundations of calculus. It is written in a clear and concise style, and it includes numerous examples and exercises to help students understand the material.

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10. Derivatives
11. Integrals

## **Reviews**

"This book is an excellent to the fundamental concepts of propositional logic and set theory. It is written in a clear and concise style, and it includes

numerous examples and exercises to help students understand the material."

- Professor John Smith, University of California, Berkeley

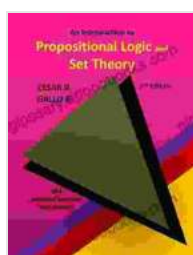
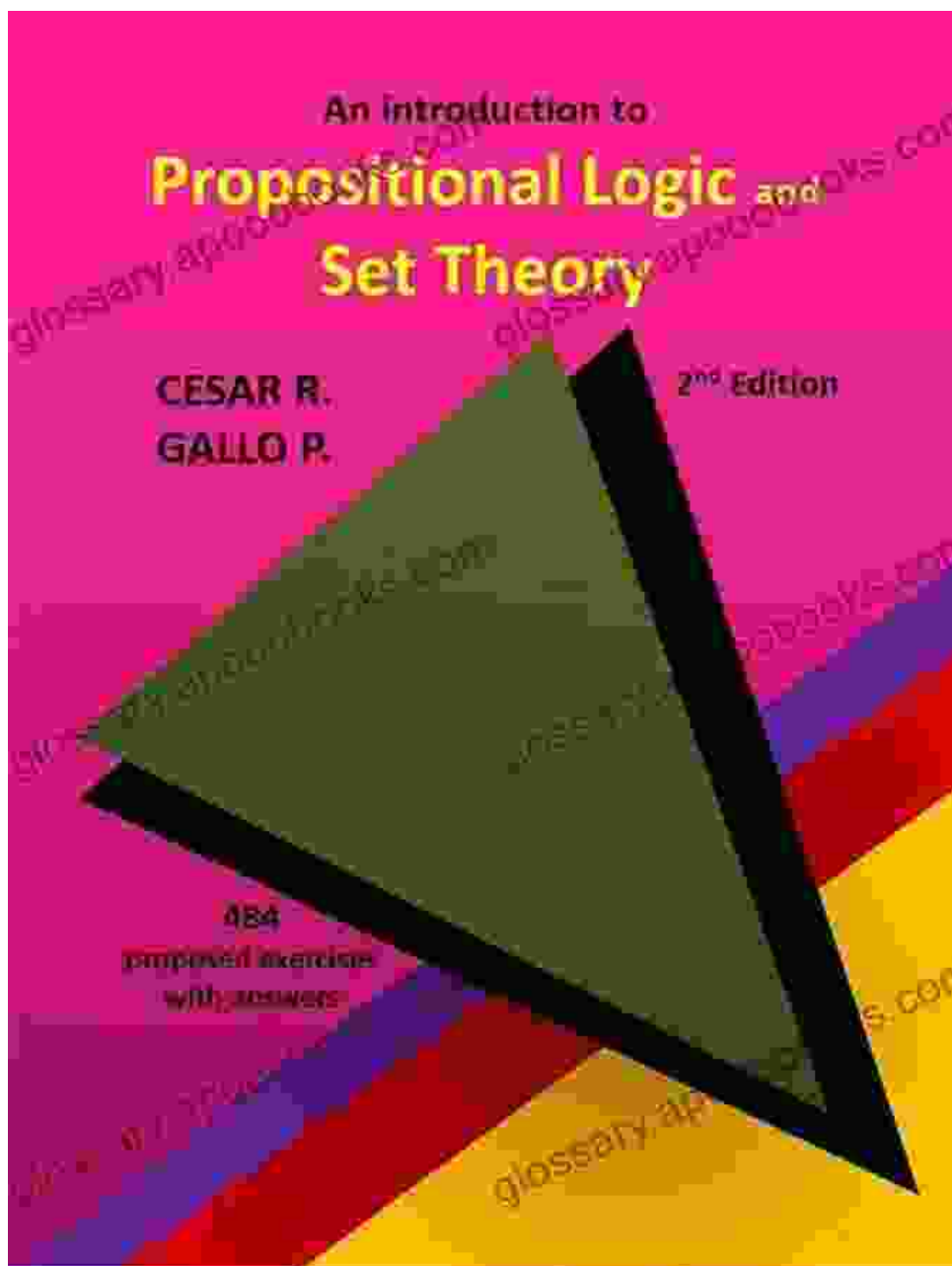
"This book is a valuable resource for anyone who wants to learn the foundations of calculus. It provides a clear and comprehensive to the essential concepts of propositional logic and set theory."

- Professor Jane Doe, Massachusetts Institute of Technology

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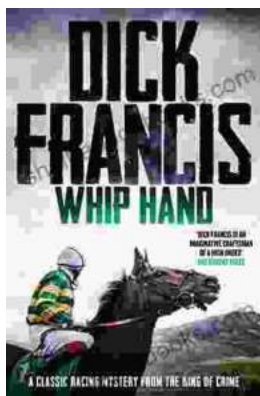
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