Introduction to Mathematical Structures and Proofs (Hardback)

By Larry J. Gerstein

Springer-Verlag New York Inc., United States, 2012. Hardback. Book Condition: New. 2nd Revised edition. 257 x 183 mm. Language: English . Brand New Book. As a student moves from basic calculus courses into upper-division courses in linear and abstract algebra, real and complex analysis, number theory, topology, and so on, a bridge course can help ensure a smooth transition. Introduction to Mathematical Structures and Proofs is a textbook intended for such a course, or for self-study. This book introduces an array of fundamental mathematical structures. It also explores the delicate balance of intuition and rigor-and the flexible thinking-required to prove a nontrivial result. In short, this book seeks to enhance the mathematical maturity of the reader. The new material in this second edition includes a section on graph theory, several new sections on number theory (including primitive roots, with an application to card-shuffling), and a brief introduction to the complex numbers (including a section on the arithmetic of the Gaussian integers). Solutions for even numbered exercises are available on for instructors adopting the text for a course. From a review of the first edition: .Gerstein wants-very gently-to teach his students to think. He wants to show them how to wrestle...

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Reviews

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