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An Introduction to Abstract Mathematics by Robert J. Bond

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In this sense, abstract mathematics is much more of an art than a science. No-one measures the quality of a painting or sculpture by how useful it is, instead it is the

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"The abstract science of number, quantity, and space, either as abstract concepts (pure mathematics), or as applied to other disciplines such as physics and engineering (applied mathematics)" Oxford Dictionary of English 3rd Edition, OUP, 2010 Mathematics makes it possible to observe, consider and appreciate parts and aspects of entities with precision, to make comparisons and establish ...

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This is an introductory textbook designed for undergraduate mathematics majors with an emphasis on abstraction and in particular, the concept of proofs in the setting of linear algebra. Typically such a student would have taken calculus, though the only prerequisite is suitable mathematical grounding.

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Keith Devlin. You know him. You've read his columns in MAA Online, you've heard him on the radio, and you've seen his popular mathematics books. In between all those activities and his own research, he's been hard at work revising Sets, Functions and Logic, his standard-setting text that has smoothed the road to pure mathematics for legions of undergraduate students. Now in its third edition ...

An Introduction To Abstract Mathematics

Chapters 1-5 introduce the fundamentals of abstract mathematics and chapters 6-8 apply the ideas and techniques, placing the earlier material in a real context. Readers' interest is continually piqued by the use of clear explanations, practical examples, discussion and discovery exercises, and historical comments.

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and rational numbers.

Sets, Groups, and Mappings: An Introduction to Abstract ...

1.1 Introduction This book aims to bridge the gap between the mainly computation-oriented lower division undergraduate classes and the abstract mathematics encountered in more advanced mathematics courses. The goal of this book is threefold: 1. You will learn Linear Algebra, which is one of the most widely used mathematical theories around.

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Abstract: This book introduces students to the world of advanced mathematics using algebraic structures as a unifying theme. Having no prerequisites beyond precalculus and an interest in abstract reasoning, the book is suitable for students of math education, computer science or physics who are looking for an easy-going entry into discrete mathematics, induction and recursion, groups and symmetry, and plane geometry.