

An Introduction To Abstract Mathematics Bond Keane

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An Introduction To Abstract Mathematics

Introduction to Abstract Mathematics is an online and individually-paced college course taken after Linear Algebra and Multivariable Calculus. This course teaches a student how to construct logical arguments in the form of a proof to verify mathematical statements.

Introduction to Abstract Mathematics | JHU CTY

Introduction to Abstract Mathematics focuses on the principles, approaches, and operations involved in abstract mathematics, including metric spaces, sets, axiom systems, and open sentences. The book first offers information on logic and set theory, natural numbers, and integers and rational numbers. Discussions focus on rational numbers and ordered fields, ordering, arithmetic, axiom systems and methods of proof, functions of kindred matters, ordered pairs and relations, sets,

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and ...

Introduction to Abstract Mathematics - 1st Edition

1. Developing the skills necessary to read and practice abstract mathematics. 2. Understanding the concept of proof, and becoming acquainted with several proof techniques. 3. Learning what sort of questions mathematicians ask, what excites them, and what they are

Math 13 — 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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It is designed to be the textbook for a bridge course that introduces undergraduates to abstract mathematics, but it is also suitable for independent study by undergraduates (or mathematically mature high-school students), or for use as a very inexpensive supplement to undergraduate courses in any field of abstract mathematics.

Proofs and Concepts: The Fundamentals of Abstract Mathematics

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Math 13: Introduction to Abstract Mathematics

Linear Algebra - As an Introduction to Abstract Mathematics 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 will have taken calculus, though the only prerequisite is suitable mathematical maturity.

Linear Algebra - As an Introduction to Abstract Mathematics

2) fundamental concepts of abstract mathematics. We start with the language of Propositional Logic, where the rules for proofs are very straightforward. Adding sets and quantifiers to this yields First-Order Logic, which is the language of modern mathematics. Being able to do proofs in this setting is the main skill

and Concepts

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.

Linear Algebra As an Introduction to Abstract Mathematics

An Introduction to Abstract Mathematics. Bond and Keane explicate the elements of logical, mathematical argument to elucidate the meaning and importance of mathematical rigor. With definitions of...

An Introduction to Abstract Mathematics by Robert J. Bond ...

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In mathematics and abstract algebra, group theory studies the algebraic structures known as groups. The concept of a group is central to abstract algebra: other well-known algebraic structures, such as rings, fields, and vector spaces, can all be seen as groups endowed with additional operations and axioms. Groups recur throughout mathematics, and the methods of group theory have influenced many ...

Group theory - Wikipedia

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An Introduction to Abstract Mathematics - AbeBooks

Abstract: This book introduces students to the world of advanced mathematics using algebraic structures as a unifying theme.

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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.