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Fundamental Concepts Of Abstract Algebra

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A text in abstract algebra for undergraduate mathematics majors, this volume contains enough material for a two-semester course. It presents extensive coverage of set theory, groups, rings, modules, vector spaces, and fields. Examples, definitions, theorems, and proofs appear throughout, along with numerous practice exercises at the end of each section. 1991 edition.

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Applications. Because of its generality, abstract algebra is used in many fields of mathematics and science. For instance, algebraic topology uses algebraic objects to study topologies. The Poincaré conjecture, proved in 2003, asserts that the fundamental group of a manifold, which encodes information about connectedness, can be used to determine whether a manifold is a sphere or not.

Abstract algebra - Wikipedia

Roughly speaking, abstract algebra is the study of what happens when certain properties of number systems are abstracted out; for instance, altering the definitions of the basic arithmetic operations result in a structure known as a ring, so long as the operations are consistent.

Abstract Algebra | Brilliant Math & Science Wiki

The central idea behind abstract algebra is to define a larger class of objects (sets with extra structure), of which \mathbb{Z} and \mathbb{Q} are definitive members. $(\mathbb{Z},+)$ \rightarrow Groups

Introduction to Abstract Algebra (Math 113)

Fundamental concepts of modern algebra Prime factorization. Some other fundamental concepts of modern algebra also had their origin in 19th-century work on number theory, particularly in connection with attempts to generalize the theorem of (unique) prime factorization beyond the natural numbers. This theorem asserted that every natural number could be written as a product of its prime factors in a unique way, except perhaps for order (e.g., $24 = 2\cdot 2\cdot 2\cdot 3$).

Algebra - Fundamental concepts of modern algebra | Britannica

In mathematics, a field is a set on which addition, subtraction, multiplication, and division are defined and behave as the corresponding operations on rational and real numbers do. A field is thus a fundamental algebraic structure which is widely used in algebra, number theory, and many other areas of mathematics.

Field (mathematics) - Wikipedia

ematically has learned the subject). Mathematical concepts are developed precisely because mathematicians observe patterns in various mathematical objects (such as the 2 2 matrices), and to have a good understanding of these concepts you must try to notice these patterns for yourselves.

A GENTLE INTRODUCTION TO ABSTRACT ALGEBRA

abstract concepts and an entire set of algebraic operations on them. The mathematical model of concepts is established first. Then, the abstract mathematical structure, concept algebra, is developed for knowledge representation and manipulation. Based on concept algebra, a knowledge system is formally modeled as a

On concept Algebra - University of Calgary

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Algebra - Wikipedia

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