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Abstract Algebra - » Department of Mathematics
concepts of abstract algebra through doing problems, the best way to un-derstand this challenging subject. So often I have encountered students who memorize a theorem without the ability to apply that theorem to a given problem. Therefore, my goal is to provide students with an array of the most typical problems in basic abstract algebra.

Contents
In algebra, which is a broad division of mathematics, abstract algebra is the study of algebraic structures. Algebraic structures include groups, rings, fields, modules, vector spaces, lattices, and algebras. The term abstract algebra was coined in the early 20th century to distinguish this area of study from the other parts of algebra. Algebraic structures, with their associated homomorphisms, form mathematical categories. Category theory is a formalism that allows a unified way for expressing

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This is the most current textbook in teaching the basic concepts of abstract algebra. The author finds that there are many students who just memorise a theorem without having the ability to apply it to a given problem. Therefore, this is a hands-on manual, where many typical algebraic problems are provided for students to be able to apply the theorems and to actually practice the methods they have learned. Each chapter begins with a statement of a major result in Group and Ring Theory, followed by problems and solutions. Contents: Tools and Major Results of Groups; Problems in Group Theory; Tools and Major Results of Ring Theory; Problems in Ring Theory; Index.

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Each chapter ends with a summary of the material covered and notes on the history and development of group theory.

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