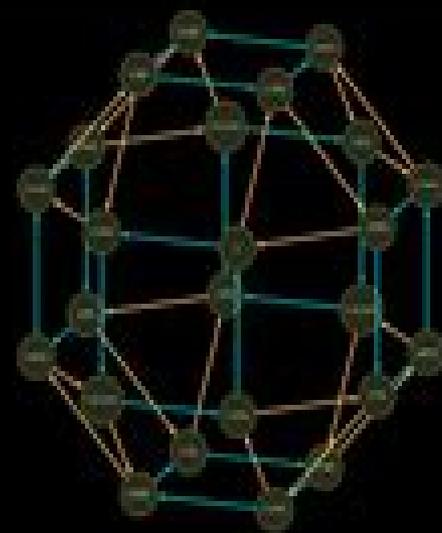


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mathematics education A Course On Abstract Algebra Minking Eie, Shou-te Chang, 2010-02-26 This textbook provides an introduction to abstract algebra for advanced undergraduate students Based on the authors lecture notes at the Department of Mathematics National Chung Cheng University of Taiwan it begins with a description of the algebraic structures of the ring and field of rational numbers Abstract groups are then introduced Technical results such as Lagrange s Theorem and Sylow s Theorems follow as applications of group theory Ring theory forms the second part of abstract algebra with the ring of polynomials and the matrix ring as basic examples The general theory of ideals as well as maximal ideals in the rings of polynomials over the rational numbers are also discussed The final part of the book focuses on field theory field extensions and then Galois theory to illustrate the correspondence between the Galois groups and field extensions This textbook is more accessible and less ambitious than most existing books covering the same subject Readers will also find the pedagogical material very useful in enhancing the teaching and learning of abstract algebra **Introduction to Abstract Algebra** Charles Racine, 1957 Course On Abstract Algebra, A (Second Edition) Minking Eie, Shou-te Chang, 2017-09-13 This textbook provides an introduction to abstract algebra for advanced undergraduate students Based on the authors notes at the Department of Mathematics National Chung Cheng University it contains material sufficient for three semesters of study It begins with a description of the algebraic structures of the ring of integers and the field of rational numbers Abstract groups are then introduced Technical results such as Lagrange s theorem and Sylow s theorems follow as applications of group theory The theory of rings and ideals forms the second part of this textbook with the ring of integers the polynomial rings and matrix rings as basic examples Emphasis will be on factorization in a factorial domain The final part of the book focuses on field extensions and Galois theory to illustrate the correspondence between Galois groups and splitting fields of separable polynomials Three whole new chapters are added to this second edition Group action is introduced to give a more in depth discussion on Sylow s theorems We also provide a formula in solving combinatorial problems as an application We devote two chapters to module theory which is a natural generalization of the theory of the vector spaces Readers will see the similarity and subtle differences between the two In particular determinant is formally defined and its properties rigorously proved The textbook is more accessible and less ambitious than most existing books covering the same subject Readers will also find the pedagogical material very useful in enhancing the teaching and learning of abstract algebra

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