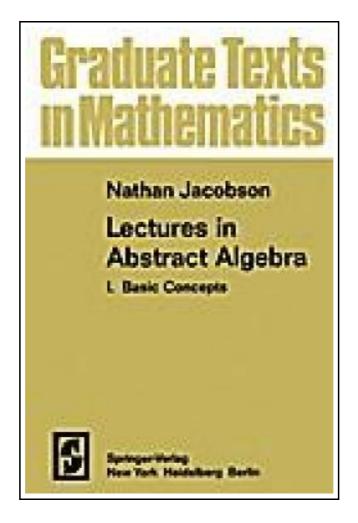
# Lectures in Abstract Algebra I: Basic Concepts



Filesize: 8.62 MB

## Reviews

These types of book is the greatest ebook readily available. I was able to comprehended every little thing using this published e pdf. I realized this pdf from my dad and i encouraged this publication to discover.

(Dr. Porter Mitchell)

### LECTURES IN ABSTRACT ALGEBRA I: BASIC CONCEPTS



To download **Lectures in Abstract Algebra I: Basic Concepts** eBook, remember to follow the web link below and download the file or gain access to other information which are have conjunction with LECTURES IN ABSTRACT ALGEBRA I: BASIC CONCEPTS ebook.

Springer Verlag Gmbh Apr 2012, 2012. Taschenbuch. Book Condition: Neu. 234x156x12 mm. This item is printed on demand - Print on Demand Titel. Neuware - Introduction: Concepts from Set Theory the System of Natural Numbers.- 1. Operations on sets.- 2. Product sets, mappings.- 3. Equivalence relations.- 4. The natural numbers.-5. The system of integers.- 6. The division process in I.- I: Semi-groups and Groups.- 1. Definition and examples of semi-groups.- 2. Non-associative binary compositions.- 3. Generalized associative law. Powers.- 4. Commutativity.- 5. Identities and inverses.- 6. Definition and examples of groups.- 7. Subgroups.- 8. Isomorphism.- 9. Transformation groups.- 10. Realization of a group as a transformation group.- 11. Cyclic groups. Order of an element.- 12. Elementary properties of permutations.- 13. Coset decompositions of a group.- 14. Invariant subgroups and factor groups.- 15. Homomorphism of groups.- 16. The fundamental theorem of homomorphism for groups.- 17. Endomorphisms, automorphisms, center of a group.- 18. Conjugate classes.- II: Rings, Integral Domains and Fields.- 1. Definition and examples.- 2. Types of rings.- 3. Quasi-regularity. The circle composition.- 4. Matrix rings.- 5. Quaternions.- 6. Subrings generated by a set of elements. Center.- 7. Ideals, difference rings.- 8. Ideals and difference rings for the ring of integers.- 9. Homomorphism of rings.- 10. Anti-isomorphism.- 11. Structure of the additive group of a ring. The charateristic of a ring.- 12. Algebra of subgroups of the additive group of a ring. One-sided ideals.- 13. The ring of endomorphisms of a commutative group.- 14. The multiplications of a ring.- III: Extensions of Rings and Fields.-1. Imbedding of a ring in a ring with an identity.- 2. Field of fractions of a commutative integral domain.- 3. Uniqueness of the field of fractions.- 4. Polynomial rings.- 5. Structure of polynomial rings.- 6. Properties of the ring U[x].- 7. Simple extensions of...



Read Lectures in Abstract Algebra I: Basic Concepts Online

Download PDF Lectures in Abstract Algebra I: Basic Concepts

## See Also



### [PDF] Psychologisches Testverfahren

Follow the web link beneath to download "Psychologisches Testverfahren" document.

Download eBook »



## [PDF] Programming in D

Follow the web link beneath to download "Programming in D" document.

Download eBook »



### [PDF] Tinga Tinga Tales: Why Lion Roars - Read it Yourself with Ladybird

Follow the web link beneath to download "Tinga Tinga Tales: Why Lion Roars - Read it Yourself with Ladybird" document.

Download eBook »



### [PDF] Yearbook Volume 15

Follow the web link beneath to download "Yearbook Volume 15" document.

Download eBook »



## [PDF] New KS2 English SAT Buster 10-Minute Tests: 2016 SATs & Beyond

Follow the web link beneath to download "New KS2 English SAT Buster 10-Minute Tests: 2016 SATs & Beyond" document.

Download eBook »



## [PDF] Aeschylus

Follow the web link beneath to download "Aeschylus" document.

Download eBook »