

1. Record Nr.	UNINA9910139338903321
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Titolo	Fundamental structures of algebra and discrete mathematics // Stephan Foldes
Pubbl/distr/stampa	New York, : Wiley, c1994
ISBN	1-282-24250-4 9786613813626 1-118-03318-3 1-118-03143-1
Descrizione fisica	1 online resource (362 p.)
Disciplina	512/.02
Soggetti	Algebra Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"A Wiley-Interscience publication."
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Fundamental Structures of Algebra and Discrete Mathematics; Contents; ILLUSTRATIONS; PREFACE; I. SETS; 1. Elementary Constructions and Axioms; 2. Cardinal and Ordinal Numbers; 3. Intersections; Bibliography; II. ORDERED SETS; 1. Relations, Orders, and Zorn's Lemma; 2. Lattices and Closures; 3. Covering Relations; 4. Intersecting Convex Sets; Bibliography; III. GROUPS; 1. Binary Operations, Homomorphisms, and Congruences; 2. Permutation Groups; 3. Integers and Cyclic Groups; 4. Alternating Groups; Bibliography; IV. RINGS; 1. Ideals; 2. Polynomials; 3. Factorization and the Euclidean Algorithm BibliographyV. FIELDS; 1. Rational and Real Numbers; 2. Galois Groups and Imaginary Roots; Bibliography; VI. VECTOR SPACES; 1. Bases; 2. Linear Maps and Equations; 3. Affine and Projective Geometry; 4. Hyperplanes in Linear Programming; 5. Time and Speed in Special Relativity; Bibliography; VII. GRAPHS; 1. Trees and Median Graphs; 2. Games; 3. Chromatic Polynomials; Bibliography; VIII. LATTICES; 1. Complements and Distributivity; 2. Boolean Algebra; 3. Modular and Geometric Lattices; Bibliography; IX. MATROIDS; 1. Linear and Abstract Independence; 2. Minors and Tutte Polynomials

3. Greedy Optimization Procedures; Bibliography; X. TOPOLOGICAL SPACES; 1. Filters; 2. Closure, Convergence, and Continuity; 3. Distances and Entourages; Bibliography; XI. UNIVERSAL ALGEBRAS; 1. Homomorphisms and Congruences; 2. Algebra of Syntax; 3. Truth and Formal Proof; Bibliography; XII. CATEGORIES; Bibliography; INDEX OF DEFINITIONS; INDEX OF NOTATION; INDEX OF THEOREMS

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Sommario/riassunto

Introduces and clarifies the basic theories of 12 structural concepts, offering a fundamental theory of groups, rings and other algebraic structures. Identifies essentials and describes interrelationships between particular theories. Selected classical theorems and results relevant to current research are proved rigorously within the theory of each structure. Throughout the text the reader is frequently prompted to perform integrated exercises of verification and to explore examples.

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