

Mahima Ranjan Adhikari
Avishek Adhikari

Basic Modern Algebra with Applications

Basic Modern Algebra With Applications

**Pantelimon Stănică, Sugata
Gangopadhyay, Sumit Kumar Debnath**



Basic Modern Algebra With Applications:

Basic Modern Algebra with Applications Mahima Ranjan Adhikari, Avishek Adhikari, 2013-12-08 The book is primarily intended as a textbook on modern algebra for undergraduate mathematics students. It is also useful for those who are interested in supplementary reading at a higher level. The text is designed in such a way that it encourages independent thinking and motivates students towards further study. The book covers all major topics in group, ring, vector space and module theory that are usually contained in a standard modern algebra text. In addition, it studies semigroup, group action, Hopf's group, topological groups and Lie groups with their actions, applications of ring theory to algebraic geometry and defines Zariski topology as well as applications of module theory to structure theory of rings and homological algebra. Algebraic aspects of classical number theory and algebraic number theory are also discussed with an eye to developing modern cryptography. Topics on applications to algebraic topology, category theory, algebraic geometry, algebraic number theory, cryptography and theoretical computer science interlink the subject with different areas. Each chapter discusses individual topics starting from the basics with the help of illustrative examples. This comprehensive text with a broad variety of concepts, applications, examples, exercises and historical notes represents a valuable and unique resource. Basic Topology 2 Avishek Adhikari, Mahima Ranjan Adhikari, 2022-09-08 This second of the three volume book is targeted as a basic course in topology for undergraduate and graduate students of mathematics. It focuses on many variants of topology and its applications in modern analysis, geometry, algebra and the theory of numbers. Offering a proper background on topology, analysis and algebra, this volume discusses the topological groups and topological vector spaces that provide many interesting geometrical objects which relate algebra with geometry and analysis. This volume follows a systematic and comprehensive elementary approach to the topology related to manifolds, emphasizing differential topology. It further communicates the history of the emergence of the concepts leading to the development of topological groups, manifolds and also Lie groups as mathematical topics with their motivations. This book will promote the scope, power and active learning of the subject while covering a wide range of theories and applications in a balanced unified way. **Basic Topology 3** Mahima Ranjan Adhikari, 2023-03-15 This third of the three volume book is targeted as a basic course in algebraic topology and topology for fiber bundles for undergraduate and graduate students of mathematics. It focuses on many variants of topology and its applications in modern analysis, geometry and algebra. Topics covered in this volume include homotopy theory, homology and cohomology theories, homotopy theory of fiber bundles, Euler characteristic and the Betti number. It also includes certain classic problems such as the Jordan curve theorem along with the discussions on higher homotopy groups and establishes links between homotopy and homology theories, axiomatic approach to homology and cohomology as inaugurated by Eilenberg and Steenrod. It includes more material than is comfortably covered by beginner students in a one semester course. Students of advanced courses will also find the book useful. This book will promote the scope, power and

active learning of the subject all the while covering a wide range of theory and applications in a balanced unified way

Basic Topology 1 Avishek Adhikari, Mahima Ranjan Adhikari, 2022-07-04 This first of the three volume book is targeted as a basic course in topology for undergraduate and graduate students of mathematics It studies metric spaces and general topology It starts with the concept of the metric which is an abstraction of distance in the Euclidean space The special structure of a metric space induces a topology that leads to many applications of topology in modern analysis and modern algebra as shown in this volume This volume also studies topological properties such as compactness and connectedness Considering the importance of compactness in mathematics this study covers the Stone Cech compactification and Alexandroff one point compactification This volume also includes the Urysohn lemma Urysohn metrization theorem Tietz extension theorem and Gelfand Kolmogoroff theorem The content of this volume is spread into eight chapters of which the last chapter conveys the history of metric spaces and the history of the emergence of the concepts leading to the development of topology as a subject with their motivations with an emphasis on general topology It includes more material than is comfortably covered by beginner students in a one semester course Students of advanced courses will also find the book useful This book will promote the scope power and active learning of the subject all the while covering a wide range of theories and applications in a balanced unified way

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Information Systems Security Salil Kanhere,Vishwas T Patil,Shamik Sural,Manoj S Gaur,2020-12-05 This book constitutes the proceedings of the 16th International Conference on Information Systems Security ICISS 2020 held in Jammu India during December 16 20 2020 The 11 regular papers 2 short papers and 3 work in progress papers included in this volume were carefully reviewed and selected from a total of 53 submissions The papers were organized in topical sections named access control AI ML in security privacy and Web security cryptography and systems security

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