

Modern Algebra

CARTESIAN PRODUCT

Let A and B be two sets. Then

$$A \times B = \{(a, b) : a \in A, b \in B\}$$

is called Cartesian product of A and B .

If cardinality of A and B is given by

$$|A| = m, |B| = n$$

Then $|A \times B| = mn$, where A, B are non empty set.

$$(i) A \times B = \{(a, b) : a \in A, b \in B\}$$

$$\text{implies } B \times A = \{(b, a) : b \in B, a \in A\}$$

$$\text{implies } A \times B \neq B \times A$$

$$(ii) A \times B = B \times A \Leftrightarrow A = B$$

$$\text{For, if } A \times B = B \times A$$

$$\text{Let } (a, b) \in A \times B$$

$$\text{implies } (b, a) \in B \times A$$

$$\text{implies } a, b \in A \text{ and } a, b \in B$$

$$\text{implies } A = B$$

RELATIONS

A relation from set A to B is a subset of $A \times B$ and relation from set B to A is subset of $B \times A$, i.e. relation

has a direction $A \xrightarrow{\phi} B$ or $B \xrightarrow{\psi} A$

Let $A = \{a, b\}$ and $B = \{1, 2\}$, then

$$A \times B = \{(a, 1) (a, 2) (b, 1) (b, 2)\}$$

here every subset of $A \times B$ is a relation from A to B i.e.,

$$A \xrightarrow{\phi} B$$

Remark: ϕ is subset of $A \times B$ [or $B \times A$] implies ϕ is relation from A to B [or B to A].

Relation on a set: The relation on set A is subset of $A \times A$. If R is subset of $A \times A$ i.e. $R \subseteq A \times A$ implies, R is relation on A

i.e. if $a, b \in A$ then R_a if $(a, b) \in R$

Example 1: If cardinality $|A \cap B| = r$ then find $|(A \times B) \cap (B \times A)|$

Solution: Let $A \cap B = D$
then $D \times D \subseteq A \times B$ and $D \times D \subseteq B \times A$
implies $|D \times D| = r \times r = r^2$

Example 2: Let $A = \{a, b, c\}$ and $B = \{a, b, d\}$ then find $|(A \times B) \cap (B \times A)|$.

Solution: we have

$$A \times B = (a, a) (a, b) (a, d) (b, a) (b, b) (b, d) (c, a) (c, b) (c, d)$$

$$\text{and } B \times A = (a, a) (a, b) (a, c) (b, a) (b, b) (b, c) (d, a) (d, b) (d, c)$$

$$\text{Let } A \cap B = |D| = 2 \text{ and } |D \times D| = 2 \times 2 = 4 \text{ implies } |(A \times B) \cap (B \times A)| = 4.$$

and $B \times A = \{(1, a) (1, b) (2, a) (2, b)\}$
here every subset of $B \times A$ is a relation from B to A i.e.

$$B \xrightarrow{\psi} A.$$

If $|A| = m$ and $|B| = n$ where $A, B \neq \phi$

then $|A \times B| = mn$

and total number of relation from A to $B = 2^{mn} = 2^{A \times B}$

For example Let $A = \{a, b, c\}$ then

$$A \times A = \{a, b, c\} \times \{a, b, c\} = \{(a, a) (a, b) (a, c) (b, a) (b, b) (b, c) (c, a) (c, b) (c, c)\}$$

then every subset of $A \times A$ is relation on set A .

Modern Algebra

Saul Stahl



Modern Algebra:

Modern Algebra John R. Durbin, 2008-12-31 The new sixth edition of Modern Algebra has two main goals to introduce the most important kinds of algebraic structures and to help students improve their ability to understand and work with abstract ideas The first six chapters present the core of the subject the remainder are designed to be as flexible as possible The text covers groups before rings which is a matter of personal preference for instructors Modern Algebra 6e is appropriate for any one semester junior senior level course in Modern Algebra Abstract Algebra Algebraic Structures or Groups Rings and Fields The course is mostly comprised of mathematics majors but engineering and computer science majors may also take it as well

Advanced Modern Algebra Joseph J. Rotman, 2010-08-11 This book is designed as a text for the first year of graduate algebra but it can also serve as a reference since it contains more advanced topics as well This second edition has a different organization than the first It begins with a discussion of the cubic and quartic equations which leads into permutations group theory and Galois theory for finite extensions infinite Galois theory is discussed later in the book The study of groups continues with finite abelian groups finitely generated groups are discussed later in the context of module theory Sylow theorems simplicity of projective unimodular groups free groups and presentations and the Nielsen Schreier theorem subgroups of free groups are free The study of commutative rings continues with prime and maximal ideals unique factorization noetherian rings Zorn's lemma and applications varieties and Gröbner bases Next noncommutative rings and modules are discussed treating tensor product projective injective and flat modules categories functors and natural transformations categorical constructions including direct and inverse limits and adjoint functors Then follow group representations Wedderburn Artin theorems character theory theorems of Burnside and Frobenius division rings Brauer groups and abelian categories Advanced linear algebra treats canonical forms for matrices and the structure of modules over PIDs followed by multilinear algebra Homology is introduced first for simplicial complexes then as derived functors with applications to Ext Tor and cohomology of groups crossed products and an introduction to algebraic K theory Finally the author treats localization Dedekind rings and algebraic number theory and homological dimensions The book ends with the proof that regular local rings have unique factorization Publisher's description

Modern Algebra and the Rise of Mathematical Structures Leo Corry, 2012-12-06 The book describes two stages in the historical development of the notion of mathematical structures first it traces its rise in the context of algebra from the mid nineteenth century to its consolidation by 1930 and then it considers several attempts to formulate elaborate theories after 1930 aimed at elucidating from a purely mathematical perspective the precise meaning of this idea First published in the series Science Networks Historical Studies Vol 17 1996 In the second revised edition the author has eliminated misprints revised the chapter on Richard Dedekind and updated the bibliographical index

Elements of Modern Algebra Linda Gilbert, 2008-10-20 ELEMENTS OF MODERN ALGEBRA is intended for an introductory course in abstract algebra taken by Math and Math for Secondary Education

majors Helping to make the study of abstract algebra more accessible this text gradually introduces and develops concepts through helpful features that provide guidance on the techniques of proof construction and logic analysis The text develops mathematical maturity for students by presenting the material in a theorem proof format with definitions and major results easily located through a user friendly format The treatment is rigorous and self contained in keeping with the objectives of training the student in the techniques of algebra and of providing a bridge to higher level mathematical courses The text has a flexible organization with section dependencies clearly mapped out and optional topics that instructors can cover or skip based on their course needs Additionally problem sets are carefully arranged in order of difficulty to cater assignments to varying student ability levels Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

Modern Algebra, 9e Surjeet Singh & Qazi Zameeruddin, The book starts from set theory and covers an advanced course in group theory and ring theory A detailed study of field theory and its application to geometry is undertaken after a brief and concise account of vector spaces and linear transformations One of the chapters discusses rings with chain conditions and Hilbert's basis theorem The book is replete with solved examples to provide ample opportunity to students to comprehend the subject

Basic Structures of Modern Algebra Y. Bahturin, 2013-03-09 This book has developed from a series of lectures which were given by the author in mechanics mathematics department of the Moscow State University In 1981 the course Additional chapters in algebra replaced the course General algebra which was founded by A G Kurosh 1908 1971 professor and head of the department of higher algebra for a period of several decades The material of this course formed the basis of A G Kurosh's well known book Lectures on general algebra Moscow 1962 2nd edition Moscow Nauka 1973 and the book General algebra Lectures of 1969 1970 Moscow Nauka 1974 Another book based on the course Elements of general algebra M Nauka 1983 was published by L A Skorniakov professor now deceased in the same department It should be noted that A G Kurosh was not only the lecturer for the course General algebra but he was also the recognized leader of the scientific school of the same name It is difficult to determine the limits of this school however the Lectures of 1962 mentioned above contain some material which exceed these limits Eventually this effect intensified the lectures of the course were given by many well known scientists and some of them see themselves as general algebraists Each lecturer brought significant originality not only in presentation of the material but in the substance of the course Therefore not all material which is now accepted as necessary for algebraic students fits within the scope of general algebra

Modern Algebra - Eighth Edition Qazi Zameeruddin, 2009-11 For More Than Thirty Years Modern Algebra Has Served The Student Community As A Textbook For Introductory Courses On The Subject The Book Starts From Set Theory And Covers An Advanced Course In Group Theory And Ring Theory A Detailed Study Of Field Theo

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Modern Algebra: An Introduction, 5Th Ed John R. Durbin,2008-12 This book presents an introduction to modern abstract algebra covering the basic ideas of groups rings and fields The first part of the book treats ideas that are important but neither abstract nor complicated and provides practice in handling mathematical statements their meaning quantification negation and proof This edition features a new section to give more substance to the introduction to Galois theory updated lists of references and discussions of topics such as Fermat s Last Theorem and the finite simple groups Mappings and Operations Introduction to Groups Equivalence Congruence Divisibility Groups Group Homomorphisms Introduction to Rings The Familiar Number Systems Polynomials Quotient Rings Field Extensions Galois Theory Geometric Constructions Applications of Permutation Groups Symmetry Cryptography and Algebraic Coding Lattices and Boolean Algebras **A**

History of Abstract Algebra Jeremy Gray,2018-08-07 This textbook provides an accessible account of the history of abstract algebra tracing a range of topics in modern algebra and number theory back to their modest presence in the seventeenth and eighteenth centuries and exploring the impact of ideas on the development of the subject Beginning with Gauss s theory of numbers and Galois s ideas the book progresses to Dedekind and Kronecker Jordan and Klein Steinitz Hilbert and Emmy Noether Approaching mathematical topics from a historical perspective the author explores quadratic forms quadratic reciprocity Fermat s Last Theorem cyclotomy quintic equations Galois theory commutative rings abstract fields ideal theory invariant theory and group theory Readers will learn what Galois accomplished how difficult the proofs of his theorems were and how important Camille Jordan and Felix Klein were in the eventual acceptance of Galois s approach to the solution of equations The book also describes the relationship between Kummer s ideal numbers and Dedekind s ideals and discusses why Dedekind felt his solution to the divisor problem was better than Kummer s Designed for a course in the history of modern algebra this book is aimed at undergraduate students with an introductory background in algebra but will also appeal to researchers with a general interest in the topic With exercises at the end of each chapter and appendices providing material difficult to find elsewhere this book is self contained and therefore suitable for self study Episodes in the History of Modern Algebra (1800-1950) Jeremy J. Gray,Karen Hunger Parshall,2011-08-31 Algebra as a subdiscipline of mathematics arguably has a history going back some 4000 years to ancient Mesopotamia The history however of what is recognized today as high school algebra is much shorter extending back to the sixteenth century while the history of what practicing mathematicians call modern algebra is even shorter still The present volume provides a glimpse into the complicated and often convoluted history of this latter conception of algebra by juxtaposing twelve episodes in the evolution of modern algebra from the early nineteenth century work of Charles Babbage on functional equations to Alexandre

Grothendieck's mid twentieth century metaphor of a rising sea in his categorical approach to algebraic geometry. In addition to considering the technical development of various aspects of algebraic thought, the historians of modern algebra whose work is united in this volume explore such themes as the changing aims and organization of the subject as well as the often complex lines of mathematical communication within and across national boundaries. Among the specific algebraic ideas considered are the concept of divisibility and the introduction of non commutative algebras into the study of number theory and the emergence of algebraic geometry in the twentieth century. The resulting volume is essential reading for anyone interested in the history of modern mathematics in general and modern algebra in particular. It will be of particular interest to mathematicians and historians of mathematics.

Modern Algebra Volume 2 O. Bezushchak, Yu. Drozd, P. Etingof, V. Futorny, R. Grigorchuk, E. Zelmanov, 2025-12-02. From July 3 to 7 2024 Taras Shevchenko National University of Kyiv. A. S. Makarenko, Sumy State Pedagogical University and the Institute of Mathematics of the National Academy of Sciences of Ukraine held the 14th Ukraine Algebra Conference as part of a series of biannual conferences originally initiated by V. Kirichenko, V. Sushchansky and V. Usenko. The 14th Ukraine Algebra Conference was held online due to Russian bombings. It brought together 350 participants from nearly 40 countries and featured 150 talks. The conference proceedings consist of two volumes. Volume 1 contains papers on Representation Theory and Volume 2 contains papers on Groups and Algebras.

An Introduction to Modern Algebra Burton Wadsworth Jones, 1975. [Introduction to Modern Algebra](#) Neal H. MacCoy, Neal Henry McCoy, 1964. [A Course in Modern Algebra](#) Peter Hilton, Yel-Chiang Wu, 1989-01-18. This classic work is now available in an unabridged paperback edition. Hilton and Wu's unique approach brings the reader from the elements of linear algebra past the frontier of homological algebra. They describe a number of different algebraic domains then emphasize the similarities and differences between them employing the terminology of categories and functors. Exposition begins with set theory and group theory and continues with coverage categories, functors, natural transformations and duality and closes with discussion of the two most fundamental derived functors of homological algebra: Ext and Tor.

Introduction to Modern Algebra and Its Applications Nadiya Gubareni, 2021-06-23. The book provides an introduction to modern abstract algebra and its applications. It covers all major topics of classical theory of numbers, groups, rings, fields and finite dimensional algebras. The book also provides interesting and important modern applications in such subjects as Cryptography, Coding Theory, Computer Science and Physics. In particular it considers algorithm RSA, secret sharing algorithms, Diffie-Hellman Scheme and ElGamal cryptosystem based on discrete logarithm problem. It also presents Buchberger's algorithm which is one of the important algorithms for constructing Gröbner basis.

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