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

(i) $A \times B = \{(a, b) : a \in A, b \in B\}$
implies $\quad B \times A = \{(b, a) : b \in B, a \in A\}$
implies $\quad A \times B \neq B \times A$
(ii) $A \times B = B \times A \Leftrightarrow A = B$
For, if $\quad A \times B = B \times A$
Let $\quad (a, b) \in A \times B$
implies $\quad (b, a) \in B \times A$
implies $a, b \in A$ and $a, b \in B$
implies $\quad A = B$

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 $\quad |D \times D| = r \times r = r^2$

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

Solution: we have
$$A \times B = (a, a) (a, b) (a, d) (b, a) (b, b) (b, d) (c, a) (c, b) (c, d)$$
and
$$B \times A = (a, a) (a, b) (a, c) (b, a) (b, b) (b, c) (d, a) (d, b) (d, c)$$

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

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 $A \xrightarrow{\text{to}} B$ or $B \xrightarrow{\text{to}} A$

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.,
$$A \xrightarrow{\text{to}} B$$

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

If $\quad |A| = m$ and $|B| = n$ where A, $B \neq \phi$
then $\quad |A \times B| = mn$
and total number of relation from A to $B = 2^{mn}$
$$= 2^{|A| \times |B|}$$

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 aR_b if $(a, b) \in R$

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.

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R. S. Mishra,N. N. Bhattacharya

Modern Algebra:

   Modern Algebra Seth Warner,2012-08-29 Standard text provides an exceptionally comprehensive treatment of every aspect of modern algebra Explores algebraic structures rings and fields vector spaces polynomials linear operators much more Over 1 300 exercises 1965 edition   **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 Gr obner 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

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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 rev edition the author has eliminated misprints revised the chapter on Richard Dedekind and updated the bibliographical index **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 <u>Elements of Modern Algebra</u> 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 **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 Gen eral 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 2 nd 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 al gebra 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 men tioned 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   Introduction to Modern Algebra and Matrix Theory Otto Schreier,Emanuel Sperner,2011-01-01 This unique text provides students with a basic course in both calculus and analytic geometry It promotes an intuitive approach to calculus and emphasizes algebraic concepts Minimal prerequisites Numerous exercises 1951 edition   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 Gr bner basis Key Features Covers all major topics of classical theory of modern abstract algebra such as groups rings and fields and their applications In addition it provides the introduction to the number theory theory of finite fields finite dimensional algebras and their applications Provides interesting and important modern applications in such subjects as Cryptography Coding Theory Computer Science and Physics Presents numerous examples illustrating the theory and applications It is also filled with a number of exercises of various difficulty Describes in detail the construction of the Cayley Dickson construction for finite dimensional algebras in particular algebras of quaternions and octonions and gives their applications in the number theory and computer graphics   Modern Algebra Ian Connell,1982   *Introductory Modern Algebra* Saul Stahl,2013-08-19 Praise for the First Edition Stahl offers the solvability of equations from the historical point of view one of the best books available to support a one semester introduction to abstract algebra CHOICE Introductory Modern Algebra A Historical Approach Second Edition presents the evolution of algebra and provides readers with the opportunity to view modern algebra as a consistent movement from concrete problems to abstract principles With a few pertinent excerpts from the writings of some of the greatest mathematicians the Second Edition uniquely facilitates the understanding of pivotal algebraic ideas The author provides a clear precise and accessible introduction to modern algebra and also helps to develop a more immediate and well grounded understanding of how equations lead to permutation groups and what those groups can inform us about such diverse items as multivariate functions and the 15 puzzle Featuring new sections on topics such as group homomorphisms the RSA algorithm complex conjugation the factorization of real polynomials and the fundamental theorem of algebra the Second Edition also includes An in depth explanation of the principles and practices of modern algebra in terms of the historical development from the Renaissance solution of the cubic equation to Dedekind s ideals Historical discussions integrated with the development of modern and abstract algebra in addition to many new explicit statements of theorems definitions and terminology A new appendix on logic and proofs sets functions and equivalence relations Over 1 000 new examples and multi level exercises at the end of each section and

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instructors algebraists and historians of science will find the work a valuable reference The book may also serve as a supplemental text for courses in abstract algebra or the history of mathematics <u>Episodes in the History of Modern Algebra (1800-1950)</u> 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 **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 **Basic Structures of Modern Algebra** Y. Bahturin,1993-08-31 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 Gen eral 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 2 nd 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 al gebra 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 men tioned above contain some material which exceed these

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