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
$|D \times D| = 2 \times 2 = 4$ 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
$$B \times A = \{(1, a) (1, b) (2, a) (2, b)\}$$
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 $\quad |A \times B| = m n$
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.

Modern Algebra

Joseph J. Rotman

Modern Algebra Modern Algebra:

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   *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   **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 rev edition the author has eliminated misprints revised the chapter on Richard Dedekind and updated the bibliographical index

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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 with Applications* William J. Gilbert,W. Keith Nicholson,2004-01-30 Praise for the first edition This book is clearly written and presents a large number ofexamples illustrating the theory there is no other book ofcomparable content available Because of its detailed coverage ofapplications generally neglected in the literature it is adesirable if not essential addition to undergraduate mathematicsand computer science libraries CHOICE As a cornerstone of mathematical science the importance ofmodern algebra and discrete structures to many areas of science andtechnology is apparent and growing with extensive use incomputing science physics chemistry and data communications aswell as in areas of mathematics such as combinatorics Blending the theoretical with the practical in the instructionof modern algebra Modern Algebra with Applications Second Editionprovides interesting and important applications of thissubject effectively holding your interest and creating a moreseamless method of instruction Incorporating the applications of modern algebra throughout itsauthoritative treatment of the subject this book covers the fullcomplement of group ring and field theory typically contained ina standard modern algebra course Numerous examples are included ineach chapter and answers to odd numbered exercises are appended inthe back of the text Chapter topics include Boolean Algebras Polynomial and Euclidean Rings Groups Quotient Rings Quotient Groups Field Extensions Symmetry Groups in Three Dimensions Latin Squares P lya Burnside Method of Enumeration Geometrical Constructions Monoids and Machines Error Correcting Codes Rings and Fields In addition to improvements in exposition this fully updatedSecond Edition also contains new material on order of an elementand cyclic groups more details about the lattice of divisors of aninteger and new historical notes Filled with in depth insights and over 600 exercises of varyingdifficulty Modern Algebra with Applications Second Edition canhelp anyone appreciate and understand this subject   *Learning Modern Algebra* Albert Cuoco,Joseph J.

Rotman,2013-01-01 Learning Modern Algebra is designed for college students who want to teach mathematics in high school but it can serve as a text for standard abstract algebra courses as well The presentation is organized historically the Babylonians introduced Pythagorean triples to teach the Pythagorean theorem these were classified by Diophantus and eventually this led Fermat to conjecture his Last Theorem Publisher description **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 **A History of Abstract Algebra** Israel Kleiner,2007-09-20 Prior to the nineteenth century algebra meant the study of the solution of polynomial equations By the twentieth century it came to encompass the study of abstract axiomatic systems such as groups rings and fields This presentation provides an account of the history of the basic concepts results and theories of abstract algebra The development of abstract algebra was propelled by the need for new tools to address certain classical problems that appeared unsolvable by classical means A major theme of the approach in this book is to show how abstract algebra has arisen in attempts to solve some of these classical problems providing a context from which the reader may gain a deeper appreciation of the mathematics involved Mathematics 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 **Introduction to Modern Algebra** Neal Henry McCoy,1992 *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

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Modern Algebra John R. Durbin,1979-03 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 **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 *A Survey of Modern Algebra* Garrett Birkhoff,Saunders Mac Lane,1977 A new edition of the classic undergraduate text introducing abstract algebra using concrete examples The authors ground their explanations with computational and theoretical exercises to develop the student s power to think for himself covering topics such as the role of careful proof in algebra linear algebra as grounded in geometry groups as expressions of symmetry and subgroups and subsystems leading to lattice theory This volume is a corrected version of the 4th edition and is offered by a new publisher Annotation copyrighted by Book News Inc Portland OR **Post-Modern Algebra** Jonathan D. H. Smith,Anna B. Romanowska,1999-02-02 Advanced algebra in the service of contemporary mathematicalresearch a unique introduction This volume takes an altogether new approach to advanced algebra Its intriguing title inspired by the term postmodernism denotes adeparture from van der Waerden s Modern Algebra a book that hasdominated the field for nearly seventy years Post Modern Algebraoffers a truly up to date alternative to the standard approach explaining topics from an applications based perspective ratherthan by abstract principles alone The book broadens the field ofstudy to include algebraic structures and methods used in currentand

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Table of Contents Modern Algebra Modern Algebra

1. Understanding the eBook Modern Algebra Modern Algebra
    - The Rise of Digital Reading Modern Algebra Modern Algebra
    - Advantages of eBooks Over Traditional Books
2. Identifying Modern Algebra Modern Algebra
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Modern Algebra Modern Algebra
    - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Algebra Modern Algebra
    - Personalized Recommendations
    - Modern Algebra Modern Algebra User Reviews and Ratings
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