

Objectives: To find the multiplicative inverse of a matrix
To use the multiplicative inverse of a matrix to solve a system of equations

FOCUS

Cryptographers use a variety of schemes for encoding messages. A simple substitution cipher was presented in Lesson 1.4. To ensure security of sensitive information, a cryptographer may also use matrix operations to encode messages.

A matrix-based cryptography system will usually replace a group of two or three letters in a row by an equal number of letters in the encoded message. By using matrix multiplication in the encoding process, an individual letter can be encoded as a different letter in different parts of the coded message. Such ciphers are designed to be difficult to decode since they require the use of the *inverse* of the encoding matrix. During World War II, Allied analysts such as Alan Turing (1912–1954) were able to break German codes produced by the Enigma machine using sophisticated decoding techniques.



Recall that the product of an identity matrix with any matrix A of equal order is the matrix A , that is, $AI = A = IA$. When the product of two square matrices A and B is the identity matrix, $AB = BA = I$, then A and B are *multiplicative inverses* of one another. The notation A^{-1} is used to denote the multiplicative inverse of matrix A . Thus, $B = A^{-1}$ and $A = B^{-1}$. Note that only square matrices can have multiplicative inverses. *Why?*

Example 1 Show that matrix B is the multiplicative inverse of matrix A .

$$A = \begin{bmatrix} 4 & 3 \\ 3 & 2 \end{bmatrix} \text{ and } B = \begin{bmatrix} -2 & 3 \\ 3 & -4 \end{bmatrix}$$

$$AB = \begin{bmatrix} 4 & 3 \\ 3 & 2 \end{bmatrix} \begin{bmatrix} -2 & 3 \\ 3 & -4 \end{bmatrix} = \begin{bmatrix} -8 + 9 & 12 - 12 \\ -6 + 6 & 9 - 8 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

$$BA = \begin{bmatrix} -2 & 3 \\ 3 & -4 \end{bmatrix} \begin{bmatrix} 4 & 3 \\ 3 & 2 \end{bmatrix} = \begin{bmatrix} -8 + 9 & -6 + 6 \\ 12 - 12 & 9 - 8 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

Since $AB = BA = I$, then A and B are inverses of one another. Thus,

$$A^{-1} = \begin{bmatrix} -2 & 3 \\ 3 & -4 \end{bmatrix} \text{ and } B^{-1} = \begin{bmatrix} 4 & 3 \\ 3 & 2 \end{bmatrix}.$$

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Nirdosh Bhatnagar



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Mathematical Methods for Physics J. R. Claycomb, 2018-04-19 No detailed description available for Mathematical Methods for Physics

Database Systems Elvis C. Foster, Shripad Godbole, 2016-11-07 Learn the concepts principles design implementation and management issues of databases You will adopt a methodical and pragmatic approach to solving database systems problems Database Systems A Pragmatic Approach provides a comprehensive yet concise introduction to database systems with special emphasis on the relational database model This book discusses the database as an essential component of a software system as well as a valuable mission critical corporate resource New in this second edition is updated SQL content covering the latest release of the Oracle Database Management System along with a reorganized sequence of the topics which is more useful for learning Also included are revised and additional illustrations as well as a new chapter on using relational databases to anchor large complex management support systems There is also added reference content in the appendixes This book is based on lecture notes that have been tested and proven over several years with outstanding results It combines a balance of theory with practice to give you your best chance at success Each chapter is organized systematically into brief sections with itemization of the important points to be remembered Additionally the book includes a number of author Elvis Foster's original methodologies that add clarity and creativity to the database modeling and design experience What You'll Learn Understand the relational model and the advantages it brings to software systems Design database schemas with integrity rules that ensure correctness of corporate data Query data using SQL in order to generate reports charts graphs and other business results Understand what it means to be a database administrator and why the profession is highly paid Build and manage web accessible databases in support of applications delivered via a browser Become familiar with the common database brands their similarities and differences Explore special topics such as tree based data hashing for fast access distributed and object databases and more Who This Book Is For Students who are studying database technology who aspire to a career as a database administrator or designer and practicing database administrators and developers desiring to strengthen their knowledge of database theory

Advanced Calculus for Mathematical Modeling in Engineering and Physics David Stapleton, 2024-06-20 Advanced Calculus for Mathematical Modeling in Engineering and Physics introduces the principles and methods of advanced calculus for mathematical modeling through a balance of theory and application using a state space approach with elementary functional analysis This framework facilitates a deeper understanding of the nature of mathematical models and of the behavior of their solutions The work provides a variety of advanced calculus models for mathematical physical science and engineering audiences with discussion of how calculus based models and their discrete analogies are generated This valuable textbook offers scientific computations driven by Octave MATLAB script in recognition of the rising importance of associated numerical models Adopts a state space functional analysis approach to advanced calculus based models to provide a better understanding of the

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MATLAB Octave scripts **Geometry of Lengths, Areas, and Volumes** James W. Cannon, 2017-11-16 This is the first of a three volume collection devoted to the geometry topology and curvature of 2 dimensional spaces The collection provides a guided tour through a wide range of topics by one of the twentieth century s masters of geometric topology The books are accessible to college and graduate students and provide perspective and insight to mathematicians at all levels who are interested in geometry and topology The first volume begins with length measurement as dominated by the Pythagorean Theorem three proofs with application to number theory areas measured by slicing and scaling where Archimedes uses the physical weights and balances to calculate spherical volume and is led to the invention of calculus areas by cut and paste leading to the Bolyai Gerwien theorem on squaring polygons areas by counting leading to the theory of continued fractions the efficient rational approximation of real numbers and Minkowski s theorem on convex bodies straight edge and compass constructions giving complete proofs including the transcendence of e and of the impossibility of squaring the circle duplicating the cube and trisecting the angle and finally to a construction of the Hausdorff Banach Tarski paradox that shows some spherical sets are too complicated and cloudy to admit a well defined notion of area **Database Systems** Elvis

Foster, Shripad Godbole, 2022-09-26 This book provides a concise but comprehensive guide to the disciplines of database design construction implementation and management Based on the authors professional experience in the software engineering and IT industries before making a career switch to academia the text stresses sound database design as a necessary precursor to successful development and administration of database systems The discipline of database systems design and management is discussed within the context of the bigger picture of software engineering Students are led to understand from the outset of the text that a database is a critical component of a software infrastructure and that proper database design and management is integral to the success of a software system Additionally students are led to appreciate the huge value of a properly designed database to the success of a business enterprise The text was written for three target audiences It is suited for undergraduate students of computer science and related disciplines who are pursuing a course in database systems graduate students who are pursuing an introductory course to database and practicing software engineers and information technology IT professionals who need a quick reference on database design Database Systems A Pragmatic Approach 3rd Edition discusses concepts principles design implementation and management issues related to database systems Each chapter is organized into brief reader friendly conversational sections with itemization of salient points to be remembered This pragmatic approach includes adequate treatment of database theory and practice based on strategies that have been tested proven and refined over several years Features of the third edition include Short paragraphs that express

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An Introduction to Mathematical Finance with Applications Arlie O. Petters, Xiaoying Dong, 2016-06-17 This textbook aims to fill the gap between those that offer a theoretical treatment without many applications and those that present and apply formulas without appropriately deriving them The balance achieved will give readers a fundamental understanding of key financial ideas and tools that form the basis for building realistic models including those that may become proprietary Numerous carefully chosen examples and exercises reinforce the student's conceptual understanding and facility with applications The exercises are divided into conceptual application based and theoretical problems which probe the material deeper The book is aimed toward advanced undergraduates and first year graduate students who are new to finance or want a more rigorous treatment of the mathematical models used within While no background in finance is assumed prerequisite math courses include multivariable calculus probability and linear algebra The authors introduce additional mathematical tools as needed The entire textbook is appropriate for a single year long course on introductory mathematical finance The self contained design of the text allows for instructor flexibility in topics courses and those focusing on financial derivatives Moreover the text is useful for mathematicians physicists and engineers who want to learn finance via an approach that builds their financial intuition and is explicit about model building as well as business school students who want a treatment of finance that is deeper but not overly theoretical

Non-Euclidean Geometry and Curvature James W. Cannon, 2017-11-08 This is the final volume of a three volume collection devoted to the geometry topology and curvature of 2 dimensional spaces The collection provides a guided tour through a wide range of topics by one of the twentieth century's masters of geometric topology The books are accessible to college and graduate students and provide perspective and insight to mathematicians at all levels who are interested in geometry and topology Einstein showed how to interpret gravity as the dynamic response to the curvature of space time Bill Thurston showed us that non Euclidean geometries and curvature are essential to the understanding of low dimensional spaces This third and final volume aims to give the reader a firm intuitive understanding of these concepts in dimension 2 The volume first demonstrates a number of the most important properties of non Euclidean geometry by means of simple infinite graphs that approximate that geometry This is followed by a long chapter taken from

lectures the author gave at MSRI which explains a more classical view of hyperbolic non Euclidean geometry in all dimensions Finally the author explains a natural intrinsic obstruction to flattening a triangulated polyhedral surface into the plane without distorting the constituent triangles That obstruction extends intrinsically to smooth surfaces by approximation and is called curvature Gauss s original definition of curvature is extrinsic rather than intrinsic The final two chapters show that the book s intrinsic definition is equivalent to Gauss s extrinsic definition Gauss s Theorema Egregium Great Theorem

Optimization and Approximation Pablo Pedregal,2017-09-07 This book provides a basic initial resource introducing science and engineering students to the field of optimization It covers three main areas mathematical programming calculus of variations and optimal control highlighting the ideas and concepts and offering insights into the importance of optimality conditions in each area It also systematically presents affordable approximation methods Exercises at various levels have been included to support the learning process

Topology as Fluid Geometry James W. Cannon,2017 This is the second of a three volume collection devoted to the geometry topology and curvature of 2 dimensional spaces The collection provides a guided tour through a wide range of topics by one of the twentieth century s masters of geometric topology The books are accessible to college and graduate students and provide perspective and insight to mathematicians at all levels who are interested in geometry and topology The second volume deals with the topology of 2 dimensional spaces The attempts encountered in Volume 1 to understand length and area in the plane lead to examples most easily described by the methods of topology fluid geometry finite curves of infinite length 1 dimensional curves of positive area space filling curves Peano curves 0 dimensional subsets of the plane through which no straight path can pass Cantor sets etc Volume 2 describes such sets All of the standard topological results about 2 dimensional spaces are then proved such as the Fundamental Theorem of Algebra two proofs the No Retraction Theorem the Brouwer Fixed Point Theorem the Jordan Curve Theorem the Open Mapping Theorem the Riemann Hurwitz Theorem and the Classification Theorem for Compact 2 manifolds Volume 2 also includes a number of theorems usually assumed without proof since their proofs are not readily available for example the Zippin Characterization Theorem for 2 dimensional spaces that are locally Euclidean the Schoenflies Theorem characterizing the disk the Triangulation Theorem for 2 manifolds and the R L Moore s Decomposition Theorem so useful in understanding fractal sets

Introduction to Distributed Computer Systems Ludwik Czaja,2018-01-24 This book introduces readers to selected issues in distributed systems and primarily focuses on principles not on technical details Though the systems discussed are based on existing von Neumann computer architectures the book also touches on emerging processing paradigms Uniquely it approaches system components not only as static constructs but also in action exploring the different states they pass through The author s teaching experience shows that newcomers to the field students and even IT professionals can far more readily grasp the essence of distributed algorithmic structures in action than on the basis of static descriptions

Mathematical Principles of the Internet, Two Volume Set Nirdosh Bhatnagar,2019-03-18 This two volume set

on Mathematical Principles of the Internet provides a comprehensive overview of the mathematical principles of Internet engineering. The books do not aim to provide all of the mathematical foundations upon which the Internet is based. Instead, these cover only a partial panorama and the key principles. Volume 1 explores Internet engineering while the supporting mathematics is covered in Volume 2. The chapters on mathematics complement those on the engineering episodes and an effort has been made to make this work succinct yet self-contained. Elements of information theory, algebraic coding theory, cryptography, Internet traffic dynamics and control of Internet congestion and queueing theory are discussed. In addition, stochastic networks, graph theoretic algorithms, application of game theory to the Internet, Internet economics, data mining and knowledge discovery and quantum computation, communication and cryptography are also discussed. In order to study the structure and function of the Internet, only a basic knowledge of number theory, abstract algebra, matrices and determinants, graph theory, geometry, analysis, optimization theory, probability theory and stochastic processes is required. These mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to Internet engineering.

Darby's Comprehensive Review of Dental Hygiene - E-Book Christine M Blue, 2015-12-21. Comprehensive full color and completely one of a kind. If you're looking for an all-inclusive review to help you pass the National Board Dental Hygiene Examination (NBDHE) on the first try, then look no further than Darby's Comprehensive Review of Dental Hygiene, 8th Edition. Written by a team of expert authors, this go-to review tool includes everything you need to fully prepare for the NBDHE, including 1,100 chapter review questions, four computerized practice exams to simulate the NBDHE test-taking experience, case studies throughout, an outline-style review of all the topics covered on the exam, and more. It's the one-stop NBDHE review tool you can't afford to be without. Comprehensive coverage offers an all-inclusive review for the NBDHE and is supplemented with 2,500 practice questions, including four simulated exams. Expert editor and chapter authors are leading educators, researchers, and practitioners in their specific areas who have an in-depth knowledge of what it takes to succeed on the NBDHE. Outline format visually organizes the content and presents information in summary style for easy review and study. Full color format features content that is liberally supplemented with illustrations, diagrams, clinical photographs, and radiographs to enhance understanding. Case presentations throughout help prepare users for Component B of the board examination. NEW Revised chapter content reflects the latest research and changes in infection control, nutrition guidelines, evidence-based care, periodontal therapy, pain management, and more. NEW Revised art program features new clinical images that accompany content updates and case presentations. NEW Review questions, 50 per chapter, end each content review. Answers and rationales are included for each NEW. Four all-new online simulated exams provide opportunities for authentic test-day experience. Study and exam modes, question rationales, mapping to NBDHE categories, and timer functionality help build confidence and content mastery.

Handbook of Linear Algebra Leslie Hogben, 2013-11-26. With a substantial amount of new material, the Handbook of Linear Algebra, Second Edition, provides

comprehensive coverage of linear algebra concepts applications and computational software packages in an easy to use format It guides you from the very elementary aspects of the subject to the frontiers of current research Along with revisions and Content Area Reading Richard T. Vacca,1981 **Dental Hygiene - E-Book** Margaret Walsh,Michele Leonardi Darby,2014-04-15 Emphasizing evidence based research and clinical competencies Dental Hygiene Theory and Practice 4th Edition provides easy to understand coverage of the dental hygienist s roles and responsibilities in today s practice It offers a clear approach to science and theory a step by step guide to core dental hygiene procedures and realistic scenarios to help you develop skills in decision making New chapters and content focus on evidence based practice palliative care professional issues and the electronic health record Written by Michele Leonardi Darby Margaret M Walsh and a veritable Who s Who of expert contributors Dental Hygiene follows the Human Needs Conceptual Model with a focus on client centered care that takes the entire person into consideration UNIQUE Human Needs Conceptual Model framework follows Maslow s human needs theory helping hygienists treat the whole patient not just specific diseases Comprehensive coverage addresses the need to know issues in dental hygiene from the rationale behind the need for dental hygiene care through assessment diagnosis care planning implementation pain and anxiety control the care of individuals with special needs and practice management Step by step procedure boxes list the equipment required and the steps involved in performing key procedures Rationales for the steps are provided in printable PDFs online Critical Thinking exercises and Scenario boxes encourage application and problem solving and help prepare students for the case based portion of the NBDHE Client Education boxes list teaching points that the dental hygienist may use to educate clients on at home daily oral health care High quality and robust art program includes full color illustrations and clinical photographs as well as radiographs to show anatomy complex clinical procedures and modern equipment Legal Ethical and Safety Issues boxes address issues related to risk prevention and management Expert authors Michele Darby and Margaret Walsh lead a team of international contributors consisting of leading dental hygiene instructors researchers and practitioners NEW chapters on evidence based practice the development of a professional portfolio and palliative care provide research based findings and practical application of topics of interest in modern dental hygiene care NEW content addresses the latest research and best practices in attaining clinical competency including nutrition and community health guidelines nonsurgical periodontal therapy digital imaging local anesthesia administration pharmacology infection control and the use of the electronic health record EHR within dental hygiene practice NEW photographs and illustrations show new guidelines and equipment as well as emerging issues and trends NEW Companion product includes more than 50 dental hygiene procedures videos in areas such as periodontal instrumentation local anesthesia administration dental materials manipulation common preventive care and more Sold separately

Mathematical Principles of the Internet, Volume 2 Nirdosh Bhatnagar,2018-11-21 This two volume set on Mathematical Principles of the Internet provides a comprehensive overview of the mathematical principles of Internet engineering The

books do not aim to provide all of the mathematical foundations upon which the Internet is based. Instead they cover a partial panorama and the key principles. Volume 1 explores Internet engineering while the supporting mathematics is covered in Volume 2. The chapters on mathematics complement those on the engineering episodes and an effort has been made to make this work succinct yet self contained. Elements of information theory, algebraic coding theory, cryptography, Internet traffic dynamics and control of Internet congestion and queueing theory are discussed. In addition, stochastic networks, graph theoretic algorithms, application of game theory to the Internet, Internet economics, data mining and knowledge discovery and quantum computation, communication and cryptography are also discussed. In order to study the structure and function of the Internet, only a basic knowledge of number theory, abstract algebra, matrices and determinants, graph theory, geometry, analysis, optimization theory, probability theory and stochastic processes is required. These mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to Internet engineering.

Handbook of Mathematics for Engineers and Scientists Andrei D. Polyanin, Alexander V. Manzhirov, 2006-11-27. Covering the main fields of mathematics, this handbook focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology. The authors describe formulas, methods, equations and solutions that are frequently used in scientific and engineering applications and present classical as well as newer solution methods for various mathematical equations. The book supplies numerous examples, graphs, figures and diagrams and contains many results in tabular form including finite sums and series and exact solutions of differential, integral and functional equations.

Advanced Mathematical Methods in Science and Engineering S.I. Hayek, 2010-06-22. Classroom tested. Advanced Mathematical Methods in Science and Engineering, Second Edition, presents methods of applied mathematics that are particularly suited to address physical problems in science and engineering. Numerous examples illustrate the various methods of solution and answers to the end of chapter problems are included at the back of the book.

Excel 2016 for Engineering Statistics Thomas J. Quirk, 2016-07-19. This book shows the capabilities of Microsoft Excel in teaching engineering statistics effectively. Similar to the previously published Excel 2013 for Engineering Statistics, this book is a step by step exercise driven guide for students and practitioners who need to master Excel to solve practical engineering problems. If understanding statistics isn't your strongest suit, you are not especially mathematically inclined or if you are wary of computers, this is the right book for you. Excel, a widely available computer program for students and managers, is also an effective teaching and learning tool for quantitative analyses in engineering courses. Its powerful computational ability and graphical functions make learning statistics much easier than in years past. However, Excel 2016 for Engineering Statistics: A Guide to Solving Practical Problems is the first book to capitalize on these improvements by teaching students and managers how to apply Excel to statistical techniques necessary in their courses and work. Each chapter explains statistical formulas and directs the reader to

use Excel commands to solve specific easy to understand engineering problems Practice problems are provided at the end of each chapter with their solutions in an appendix Separately there is a full Practice Test with answers in an Appendix that allows readers to test what they have learned *Marine Hydrodynamics, 40th anniversary edition* J. N. Newman, 2018-01-26

A textbook that offers a unified treatment of the applications of hydrodynamics to marine problems The applications of hydrodynamics to naval architecture and marine engineering expanded dramatically in the 1960s and 1970s This classic textbook originally published in 1977 filled the need for a single volume on the applications of hydrodynamics to marine problems The book is solidly based on fundamentals but it also guides the student to an understanding of engineering applications through its consideration of realistic configurations The book takes a balanced approach between theory and empirics providing the necessary theoretical background for an intelligent evaluation and application of empirical procedures It also serves as an introduction to more specialized research methods It unifies the seemingly diverse problems of marine hydrodynamics by examining them not as separate problems but as related applications of the general field of hydrodynamics The book evolved from a first year graduate course in MIT's Department of Ocean Engineering A knowledge of advanced calculus is assumed Students will find a previous introductory course in fluid dynamics helpful but the book presents the necessary fundamentals in a self contained manner The 40th anniversary of this pioneering book offers a foreword by John Grue Contents Model Testing The Motion of a Viscous Fluid The Motion of an Ideal Fluid Lifting Surfaces Waves and Wave Effects Hydrodynamics of Slender Bodies

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