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Explorations of Mathematical Models in Biology with MATLAB Mazen Shahin 2013-12-24 Explore and analyze the solutions of mathematical models from diverse disciplines As biology increasingly depends on data, algorithms, and models, it has become necessary to use a computing language, such as the user-friendly MATLAB, to focus more on building and analyzing models as opposed to configuring tedious calculations. Explorations of Mathematical Models in Biology with MATLAB provides an introduction to model creation using MATLAB,

followed by the translation, analysis, interpretation, and observation of the models. With an integrated and interdisciplinary approach that embeds mathematical modeling into biological applications, the book illustrates numerous applications of mathematical techniques within biology, ecology, and environmental sciences. Featuring a quantitative, computational, and mathematical approach, the book includes: Examples of real-world applications, such as population dynamics, genetics, drug administration, interacting species, and the spread of contagious diseases, to showcase the relevancy and wide applicability of abstract mathematical techniques Discussion of various mathematical concepts, such as Markov chains, matrix algebra, eigenvalues, eigenvectors, first-order linear difference equations, and nonlinear first-order difference equations Coverage of difference equations to model a wide range of real-life discrete time situations in diverse areas as well as discussions on matrices to model linear problems Solutions to selected exercises and additional MATLAB codes Explorations of Mathematical Models in Biology with MATLAB is an ideal textbook for upper-undergraduate courses in mathematical models in biology, theoretical ecology, bioeconomics, forensic science, applied mathematics, and environmental science. The book is also an excellent reference for biologists, ecologists, mathematicians, biomathematicians, and environmental and resource economists.

Linear Algebra David Poole 2011 David Poole's innovative book prepares students to make the transition from the computational aspects of the course to the theoretical by emphasizing vectors and geometric intuition from the start. Designed for a one- or two-semester introductory course and written in simple, "mathematical English" the book presents interesting examples before abstraction. This immediately follows up theoretical discussion with further examples and a variety of applications drawn from a number of disciplines, which reinforces the practical utility of the math, and helps students from a variety of

backgrounds and learning styles stay connected to the concepts they are learning. Poole's approach helps students succeed in this course by learning vectors and vector geometry first in order to visualize and understand the meaning of the calculations that they will encounter and develop mathematical maturity for thinking abstractly.

The American Mathematical Monthly 1983

Explorations of Mathematical Models in Biology with Maple Mazen Shahin 2014-11-03 Explore and analyze the solutions of mathematical models from diverse disciplines As biology increasingly depends on data, algorithms, and models, it has become necessary to use a computing language, such as the user-friendly MapleTM, to focus more on building and analyzing models as opposed to configuring tedious calculations. Explorations of Mathematical Models in Biology with Maple provides an introduction to model creation using Maple, followed by the translation, analysis, interpretation, and observation of the models. With an integrated and interdisciplinary approach that embeds mathematical modeling into biological applications, the book illustrates numerous applications of mathematical techniques within biology, ecology, and environmental sciences. Featuring a quantitative, computational, and mathematical approach, the book includes: Examples of real-world applications, such as population dynamics, genetics, drug administration, interacting species, and the spread of contagious diseases, to showcase the relevancy and wide applicability of abstract mathematical techniques Discussion of various mathematical concepts, such as Markov chains, matrix algebra, eigenvalues, eigenvectors, first-order linear difference equations, and nonlinear first-order difference equations Coverage of difference equations to model a wide range of real-life discrete time situations in diverse areas as well as discussions on matrices to model linear problems Solutions to selected exercises and additional Maple codes Explorations of Mathematical Models in Biology with Maple is an ideal textbook for undergraduate

courses in mathematical models in biology, theoretical ecology, bioeconomics, forensic science, applied mathematics, and environmental science. The book is also an excellent reference for biologists, ecologists, mathematicians, biomathematicians, and environmental and resource economists.

Matrices Pam Norton 2007 Matrices are used in many areas of mathematics, and have applications in diverse areas such as engineering, computer graphics, image processing, physical sciences, biological sciences and social sciences. Powerful calculators and computers can now carry out complicated and difficult numeric and algebraic computations involving matrix methods, and such technology is a vital tool in related real-life, problem-solving applications. This book provides mathematics teachers with an elementary introduction to matrix algebra and its uses in formulating and solving practical problems, solving systems of linear equations, representing combinations of affine (including linear) transformations of the plane and modeling finite state Markov chains. The basic theory in each of these areas is explained and illustrated using a broad range of examples. A feature of the book is the complementary use of technology, particularly computer algebra systems, to do the calculations involving matrices required for the applications. A selection of student activities with solutions and text and web references are included throughout the book

Comprehensive Dissertation Index 1984 Vols. for 1973- include the following subject areas: Biological sciences, Agriculture, Chemistry, Environmental sciences, Health sciences, Engineering, Mathematics and statistics, Earth sciences, Physics, Education, Psychology, Sociology, Anthropology, History, Law & political science, Business & economics, Geography & regional planning, Language & literature, Fine arts, Library & information science, Mass communications, Music, Philosophy and Religion.

Zeven korte beschouwingen over natuurkunde Carlo Rovelli 2016-01-15 Ons verlangen om te willen weten is oneindig: wat is de oorsprong van het heelal, wat is tijd, wat zijn zwarte gaten,

hoe zit de kosmos in elkaar? Deze vragen vormen het uitgangspunt van Carlo Rovelli's Zeven korte beschouwingen over natuurkunde. In dit overzichtelijke boek behandelt hij de belangrijkste ontwikkelingen in de twintigste-eeuwse natuurkunde. Zo bespreekt hij Einsteins relativiteitstheorie, de kwantummechanica en zwarte gaten, de architectuur van het heelal en andere brandende kwesties met betrekking tot de fysische wereld. Carlo Rovelli (1956) is een gerenommeerd Italiaans natuurkundige en schrijver. Hij is een autoriteit op het gebied van de kwantumgravitatie _ een belangrijk onderwerp in de natuurkunde van dit moment. Rovelli is verbonden aan het Centrum voor theoretische natuurkunde van de Universiteit van Aix-Marseille. Van Zeven korte beschouwingen over natuurkunde zijn in Italië al meer dan 200.000 exemplaren verkocht. 'Door Carlo Rovelli's Zeven korte beschouwingen over natuurkunde zijn de relativiteitstheorie en de kwantumfysica veranderd in bestsellermateriaal.' La Repubblica 'Natuurkunde wordt altijd al gepopulariseerd, maar professor Rovelli's boek doet meer: zijn stijl onderscheidt zich doordat die zowel authentiek als aantrekkelijk is, en hij behandelt vraagstukken die zijn lezers werkelijk interesseren.' Corriere della Sera 'Net zo ongecompliceerd als de titel impliceert.' The Guardian

Linear Algebra: A Modern Introduction David Poole 2014-03-19 David Poole's innovative LINEAR ALGEBRA: A MODERN INTRODUCTION, 4e emphasizes a vectors approach and better prepares students to make the transition from computational to theoretical mathematics. Balancing theory and applications, the book is written in a conversational style and combines a traditional presentation with a focus on student-centered learning. Theoretical, computational, and applied topics are presented in a flexible yet integrated way. Stressing geometric understanding before computational techniques, vectors and vector geometry are introduced early to help students visualize concepts and develop mathematical maturity for abstract thinking. Additionally, the book includes ample applications drawn from a variety of

disciplines, which reinforce the fact that linear algebra is a valuable tool for modeling real-life problems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.
De werkelijkheid is niet wat ze lijkt C. Rovelli 2017-08-14 Hoe moeten geïnteresseerde lezers nog iets begrijpen van alle recente ideeën over de kosmos? In zijn boek legt Rovelli het nu aan een breder publiek uit. Zo laat hij zien hoe vaak oude conceptenen ideeën telkens weer opduiken. En misschien onbedoeld: ook hoezeer de natuurkunde zelf evolueert.
Calamiteitenleer voor gevorderden Marisha Pessl 2013-04-04 In Calamiteitenleer voor gevorderden combineert Pessl de spanning van Hitchcock met de literaire kwaliteiten van Donna Tartt. Ze doet dat met een intelligentie en spitsvondigheid die geheel de hare zijn. `Het was bijna een jaar nadat ik Hannah dood had gevonden en ik dacht dat het me gelukt was om alle details van die nacht in mijzelf te wissen. Ik had me vergist. Ergens eind januari lag ik in het holst van de nacht weer eens wakker en zag haarscherp Hannah Schneider. Ze hing een meter boven de grond aan een oranje elektriciteitssnoer. Haar ogen leken op eikels, of op twee zwarte knopen van een overjas die kinderen in het gezicht van een sneeuwpop zouden drukken, en ze zagen niets. Of eigenlijk was het probleem dat ze álles hadden gezien. Calamiteitenleer voor gevorderden is een fascinerend verhaal waarin de beproevingen van een postmoderne opvoeding en een moordmysterie centraal staan. De achttienjarige Blue van Meer voert het woord, en we worden meegezogen in een duizelingwekkend verhaal over de dood en vlinders, vrouwen, zwerftochten, de Amerikaanse McCulture, hoogtepunten uit de westerse literatuur, politiek radicalisme en kalverliefdes. Blues ironische en aangrijpende relaas, gestructureerd als een syllabus voor een collegereeks over de Grote Werken uit de Literatuur, toont ons hoe mensen van alle leeftijden altijd proberen aansluiting bij anderen te vinden, hoe fantasie ons in tijden van chaos en verbijstering tot steun kan zijn, en de bevrijdende

werking die uit kan gaan van het duisterste geheim.
Paperbound Books in Print 1992
Mathematical Reviews 2004
Analytical Mechanics for Relativity and Quantum Mechanics Oliver Johns 2011-05-19 An innovative and mathematically sound treatment of the foundations of analytical mechanics and the relation of classical mechanics to relativity and quantum theory. It presents classical mechanics in a way designed to assist the student's transition to quantum theory.
Projectmanagement voor Dummies, 3e editie / druk 3 Stanley Erwin Portny 2010 Lees hoe je projecten succesvol kunt leiden. Alles wat je nodig hebt om een geslaagd projectmanager te worden. In onze tijd- en kostenefficiënte wereld zijn deadlines en hoge verwachtingen de norm geworden. Dus hoe kun je succes bereiken? Dit praktische boek brengt je de beginselen van projectmanagement bij en laat zien hoe je die gebruikt om een project succesvol te managen,van begin tot eind. Als je je aan het voorbereiden bent op het PMP®-examen (ontwikkeld door het Amerikaanse Project Management Institute) kun je gerust zijn; dit boek staat op één lijn met het handboek voor dat examen. Stanley E. Portny is consultant in projectmanagement en gediplomeerd Project Management Professional (PMP®). Hij gaf trainingen en adviezen aan meer dan honderdvijftig openbare en particuliere organisaties. Bron: Flaptekst, uitgeversinformatie.
Books in Print 1995
Numerical Analysis for Science, Engineering and Technology Said Gamil Ahmed 2018-05-02 This textbook is intended as a guide for undergraduate and graduate students in engineering, science and technology courses. Chapters of the book cover the numerical concepts of errors, approximations, differential equations and partial differential equations. The simple presentation of numerical concepts and illustrative examples helps students and general readers to understand the topics covered in the text.
Classical Mechanics J. Michael Finn 2009-06 Classical

Mechanics presents an updated treatment of the dynamics of particles and particle systems suitable for students preparing for advanced study of physics and closely related fields, such as astronomy and the applied engineering sciences. Compared to older books on this subject, the mathematical treatment has been updated for the study of more advanced topics in quantum mechanics, statistical mechanics, and nonlinear and orbital mechanics. The text begins with a review of the principles of classical Newtonian dynamics of particles and particle systems and proceeds to show how these principles are modified and extended by developments in the field. The text ends with the unification of space and time given by the Special Theory of Relativity. In addition, Hamiltonian dynamics and the concept of phase space are introduced early on. This allows integration of the concepts of chaos and other nonlinear effects into the main flow of the text. The role of symmetries and the underlying geometric structure of space-time is a key theme. In the latter chapters, the connection between classical and quantum mechanics is examined in some detail.

Books in Print R R Bowker Publishing 1989

The Athenaeum James Silk Buckingham 1828

Byzantium / druk 1 Judith Herrin 2013-02-15 Geschiedenis van het Byzantijnse keizerrijk dat bestond van 324 tot 1453.

Game Physics David H. Eberly 2010-04-05 Create physically realistic 3D Graphics environments with this introduction to the ideas and techniques behind the process. Author David H. Eberly includes simulations to introduce the key problems involved and then gradually reveals the mathematical and physical concepts needed to solve them. He then describes all the algorithmic foundations and u

Computernetwerken James F. Kurose 2003-01-01

Inleiding informatica J. Glenn Brookshear 2005

Pure and Applied Science Books, 1876-1982 1982 Over 220,000 entries representing some 56,000 Library of Congress subject headings. Covers all disciplines of science and technology, e.g.,

engineering, agriculture, and domestic arts. Also contains at least 5000 titles published before 1876. Has many applications in libraries, information centers, and other organizations concerned with scientific and technological literature. Subject index contains main listing of entries. Each entry gives cataloging as prepared by the Library of Congress. Author/title indexes.

How to Solve Large Linear Systems Aleksa Srdanov 2019-12-01

Solving the linear equation system n x n can also be a problem for a computer, even when the number of equations and unknowns is relatively small (a few hundred). All existing methods are burdened by at least one of the following problems: 1) Complexity of computation expressed through the number of operations required to be done to obtaining solution; 2) Unrestricted growth of the size of the intermediate result, which causes overflow and underflow problems; 3) Changing the value of some coefficients in the input system, which causes the instability of the solution; 4) Require certain conditions for convergence, etc. In this paper an approximate and exact methods for solving a system of linear equations with an arbitrary number of equations and the same number of unknowns is presented. All the mentioned problems can be avoided by the proposed methods. It is possible to define an algorithm that does not solve the system of equations in the usual mathematical way, but still finds its exact solution in the exact number of steps already defined. The methods consist of simple computations that are not cumulative. At the same time, the number of operations is acceptable even for a relatively large number of equations and unknowns. In addition, the algorithms allows the process to start from an arbitrary initial n-tuple and always leads to the exact solution if it exists.

Linear Algebra: A Modern Introduction David Poole 2010-05-25

David Poole’s innovative book emphasizes vectors and geometric intuition from the start and better prepares students to make the transition from the computational aspects of the course to the theoretical. Designed for a one- or two-semester

introductory course and written in simple, mathematical English Poole focuses his approach on benefiting student visualization and connection to the material. He offers concrete examples to engage the student before presenting abstraction, and immediately follows up theoretical discussion with further examples and an array of applications from a variety of disciplines. Students from a variety of backgrounds and learning styles benefit from Poole's practical approach, which covers vectors and vector geometry early in order to enable students to visualize the mathematics while they are doing matrix operations. With a concrete understanding of vector geometry, students are able to visualize and understand the meaning of the calculations that they will encounter and develop mathematical maturity for thinking abstractly. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

PHP & MySQL voor Dummies Janet Valade 2004

Introduction to Cryptography with Mathematical Foundations and Computer Implementations Alexander Stanoyevitch 2010-08-09 From the exciting history of its development in ancient times to the present day, Introduction to Cryptography with Mathematical Foundations and Computer Implementations provides a focused tour of the central concepts of cryptography. Rather than present an encyclopedic treatment of topics in cryptography, it delineates cryptographic concepts in chronological order, developing the mathematics as needed. Written in an engaging yet rigorous style, each chapter introduces important concepts with clear definitions and theorems. Numerous examples explain key points while figures and tables help illustrate more difficult or subtle concepts. Each chapter is punctuated with "Exercises for the Reader;" complete solutions for these are included in an appendix. Carefully crafted exercise sets are also provided at the end of each chapter, and detailed solutions to most odd-numbered exercises can be found in a designated appendix. The computer implementation section at the end of every chapter

guides students through the process of writing their own programs. A supporting website provides an extensive set of sample programs as well as downloadable platform-independent applet pages for some core programs and algorithms. As the reliance on cryptography by business, government, and industry continues and new technologies for transferring data become available, cryptography plays a permanent, important role in day-to-day operations. This self-contained sophomore-level text traces the evolution of the field, from its origins through present-day cryptosystems, including public key cryptography and elliptic curve cryptography.

Numerical Analysis David Ronald Kincaid 2002 This book introduces students with diverse backgrounds to various types of mathematical analysis that are commonly needed in scientific computing. The subject of numerical analysis is treated from a mathematical point of view, offering a complete analysis of methods for scientific computing with appropriate motivations and careful proofs. In an engaging and informal style, the authors demonstrate that many computational procedures and intriguing questions of computer science arise from theorems and proofs. Algorithms are presented in pseudocode, so that students can immediately write computer programs in standard languages or use interactive mathematical software packages. This book occasionally touches upon more advanced topics that are not usually contained in standard textbooks at this level.

Paperbound Books in Print Fall 1995 Reed Reference Publishing 1995-10

“The” Athenaeum 1840

Numerical Analysis 1989 David Francis Griffiths 1990

Electron Spin Resonance Charles P. Poole 1996-01-01 Second edition of classic reference contains comprehensive coverage of experimental techniques, theoretical and practical aspects of ESR instrumentation. Recent developments, plus how to build, use ESR spectrometer. References. 1982 edition.

Denkende machines Jan van Eijck 2002 Geschiedenis van het

rekenen met machines en het rekenen in verschillende getallenstelsels, gevolgd door modellen van mechanische berekening.
Algoritmen en datastructuren Niklaus Wirth 1989 Inleiding in het programmeren, bestemd voor programmeurs.
The British National Bibliography Arthur James Wells 1994
A Concise Introduction to Pure Mathematics, 4th Edition Martin Liebeck 2015-11-11 In addition to the Introduction to Analysis chapters contained in previous editions, this edition presents two new chapters that give an introduction to Abstract Algebra via group theory. While this is a standard topic and there are many texts on group theory, this is a "taster" as an introduction to more abstract reasoning. Additional material has been added to the chapters "Counting and Choosing" and "More on Sets." The book also contains new exercises with solutions to the odd-numbered ones.
Book Review Index 2003 Every 3rd issue is a quarterly cumulation.
Forthcoming Books Rose Arny 2000
De ketting Adrian McKinty 2019-07-09 ‘Je hebt nog nooit iets zoals De Ketting gelezen en je zult het nooit vergeten. Briljant. Fantastisch geschreven. Meesterlijk spannend. Dit is Jaws voor ouders.’ Don Winslow ‘Met afstand een van de beste misdaadschrijvers van deze tijd.’ Val McDermid Het is een ochtend als alle andere. Rachel Klein zet haar dochter af bij de bushalte en begint aan haar dag. Maar een telefoontje van een onbekend nummer verandert alles. De beller vertelt Rachel dat haar dochter vastgebonden en gekneveld op de achterbank van zijn auto ligt. Als ze haar ooit weer wil zien, moet ze losgeld betalen en een ander kind ontvoeren. Dit is geen gewone kidnapping: de beller is zelf een moeder wier zoon is ontvoerd en als Rachel niet doet wat haar wordt gezegd, zullen beide kinderen sterven. Rachel maakt nu deel uit van de Ketting, een oneindig en ingenieus plan dat ouders verandert in criminelen – en iemand heel rijk maakt. De regels zijn eenvoudig, de morele

keuzes onmogelijk: vind snel geld, zoek een eigen slachtoffer en bega een vreselijke daad waarvan je 24 uur geleden nog dacht dat je er nooit toe in staat zou zijn. De genieën achter de Ketting weten dat ouders alles voor hun kinderen overhebben. Wat ze niet weten is dat zelfs de sterkste ketting maar zoveel druk kan verdragen... tot hij breekt. Auteurs over Adrian McKinty ‘Ik word helemaal gek van McKinty. Hij is nu al een van de beste stilisten die er zijn en ik heb alleen nog zijn eerste boek gelezen! Een fantastische schrijver.’ Frank McCourt ‘McKinty is zó goed... Ik begin hem echt te haten.’ Lee Child