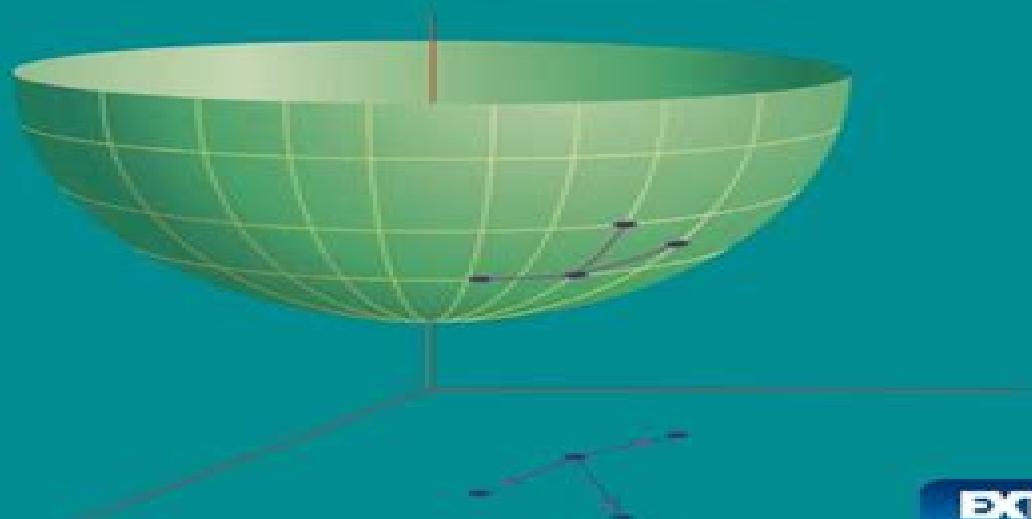


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SymPy [Scientific Computing with Mathematica®](#) Addolorata Marasco,Antonio Romano,2013-04-19 Many interesting behaviors of real physical biological economical and chemical systems can be described by ordinary differential equations ODEs Scientific Computing with Mathematica for Ordinary Differential Equations provides a general framework useful for the applications on the conceptual aspects of the theory of ODEs as well as a sophisticated use of Mathematica software for the solutions of problems related to ODEs In particular a chapter is devoted to the use ODEs and Mathematica in the Dynamics of rigid bodies Mathematical methods and scientific computation are dealt with jointly to supply a unified presentation The main problems of ordinary differential equations such as phase portrait approximate solutions periodic orbits stability bifurcation and boundary problems are covered in an integrated fashion with numerous worked examples and computer program demonstrations using Mathematica Topics and Features Explains how to use the Mathematica package ODE m to support qualitative and quantitative problem solving End of chapter exercise sets incorporating the use of Mathematica programs Detailed description and explanation of the mathematical procedures underlying the programs written in Mathematica Appendix describing the use of ten notebooks to guide the reader through all the exercises This book is an essential text reference for students graduates and practitioners in applied mathematics and engineering interested in ODE s problems in both the qualitative and quantitative description of solutions with the Mathematica program It is also suitable as a self [Mastering Mathematica®](#) John W. Gray,2014-05-10 Mastering Mathematica Programming Methods and Applications presents the mathematical results and turn them into precise algorithmic procedures that can be executed by a computer This book provides insight into more complex situations that can be investigated by hand Organized into four parts this book begins with an overview of the use of a pocket calculator This text then looks in more detail at numerical calculations and solving equations both algebraic and differential equations Other parts consider the built in graphics and show how to make pictures without programming This book discusses as well the four styles of programming namely functional programming imperative programming rewrite programing and object oriented programming The reader is also introduced to differentiable mapping to show the analysis of critical points of functions and the developments in differential geometry that are required to study minimal surfaces This book is a valuable resource for graduate students in mathematics mathematics education engineering and the sciences [Numerical and Analytical Methods for Scientists and Engineers Using Mathematica](#) Daniel Dubin,Daniel Herschel Eli Dubin,2003-05-05 Written from the perspective of a physicist rather than a mathematician the text focuses on modern practical applications in the physical engineering sciences attacking these problems with a range of numerical and analytical methods both elementary and advanced Incorporating the widely used and highly praised Mathematica software package the author offers solution techniques for the partial differential equations of mathematical physics such as Poisson s equation the wave equation and Schr dinger s equation including Fourier series and transforms Green s functions the method of characteristics grids Galerkin and simulation methods elementary probability

theory and statistical methods **Novel Methods in Computational Finance** Matthias Ehrhardt, Michael Günther, E. Jan W. ter Maten, 2017-09-19 This book discusses the state of the art and open problems in computational finance. It presents a collection of research outcomes and reviews of the work from the STRIKE project an FP7 Marie Curie Initial Training Network ITN project in which academic partners trained early stage researchers in close cooperation with a broader range of associated partners including from the private sector. The aim of the project was to arrive at a deeper understanding of complex mostly nonlinear financial models and to develop effective and robust numerical schemes for solving linear and nonlinear problems arising from the mathematical theory of pricing financial derivatives and related financial products. This was accomplished by means of financial modelling mathematical analysis and numerical simulations optimal control techniques and validation of models. In recent years the computational complexity of mathematical models employed in financial mathematics has witnessed tremendous growth. Advanced numerical techniques are now essential to the majority of present day applications in the financial industry. Special attention is devoted to a uniform methodology for both testing the latest achievements and simultaneously educating young PhD students. Most of the mathematical codes are linked into a novel computational finance toolbox which is provided in MATLAB and PYTHON with an open access license. The book offers a valuable guide for researchers in computational finance and related areas e.g. energy markets with an interest in industrial mathematics

Computational Financial Mathematics using MATHEMATICA® Srdjan Stojanovic, 2002-10-04 Given the explosion of interest in mathematical methods for solving problems in finance and trading a great deal of research and development is taking place in universities large brokerage firms and in the supporting trading software industry. Mathematical advances have been made both analytically and numerically in finding practical solutions. This book provides a comprehensive overview of existing and original material about what mathematics when allied with Mathematica can do for finance. Sophisticated theories are presented systematically in a user friendly style and a powerful combination of mathematical rigor and Mathematica programming. Three kinds of solution methods are emphasized symbolic numerical and Monte Carlo. Nowadays only good personal computers are required to handle the symbolic and numerical methods that are developed in this book. Key features: No previous knowledge of Mathematica programming is required. The symbolic numeric data management and graphic capabilities of Mathematica are fully utilized. Monte Carlo solutions of scalar and multivariable SDEs are developed and utilized heavily in discussing trading issues such as Black Scholes hedging. Black Scholes and Dupire PDEs are solved symbolically and numerically. Fast numerical solutions to free boundary problems with details of their Mathematica realizations are provided. Comprehensive study of optimal portfolio diversification including an original theory of optimal portfolio hedging under non Log Normal asset price dynamics is presented. The book is designed for the academic community of instructors and students and most importantly will meet the everyday trading needs of quantitatively inclined professional and individual investors

Mathematica for Chemists and Chemical Engineers Anton Antonov, 2014-04-07

An essential tool made transparent this book explains the theory behind current numerical methods and shows how to use them in a step by step fashion It unites applications of numerical mathematics and computing to the practice of chemistry and chemical engineering spanning the entire field from kinetics to chemical molecule searches to modeling The material presented here is based on several tried and tested courses for scientists and engineers as well as industry examples All programming constructs and algorithms are explained using block schemes making them easier to comprehend for people who are accustomed to follow charts of reaction flows and technological processes As a result certain powerful mathematical and algorithmic concepts are introduced that result in important and interesting tools for chemical research investigation and engineering The author is a co inventor of Mathematica and this book represents a very successful method to explain Mathematica and functional programming to chemists and chemical engineers It thus provides a solid background and direction in using Mathematica in chemical computational tasks that arise in mathematical chemistry computational chemistry cheminformatics combinatorial chemistry and chemometrics Readers will gain a working knowledge of Mathematica programming as well as a detailed understanding of the key elements required to create the fastest shortest and most cost effective processes to solve problems in chemical engineering and chemistry With interactive Mathematica code and examples provided on a CD ROM plus problems and worked solutions in each chapter this is an invaluable resource for students in chemistry and in chemical engineering chemical and engineers environmental chemists and chemists in industry Modern Methods in Mathematical Physics Vladimir Ryzhov,Tatiana Fedorova,Kirill Safronov,Shaharin Anwar Sulaiman,Samsul Ariffin Abdul Karim,2022-11-04 This book provides ideas for implementing Wolfram Mathematica to solve linear integral equations The book introduces necessary theoretical information about exact and numerical methods of solving integral equations Every method is supplied with a large number of detailed solutions in Wolfram Mathematica In addition the book includes tasks for individual study This book is a supplement for students studying Integral Equations In addition the structure of the book with individual assignments allows to use it as a base for various courses

Computational Science and Its Applications - ICCSA 2005 Osvaldo Gervasi,Marina L. Gavrilova,Vipin Kumar,Antonio Laganà,Heow Pueh Lee,Youngson Mun,David Taniar,Chih Jeng Kenneth Tan,2005-05-02 The four volume set assembled following The 2005 International Conference on Computational Science and its Applications ICCSA 2005 held in Suntec International Convention and Exhibition Centre Singapore from 9 May 2005 till 12 May 2005 represents the ne collection of 540 refereed papers selected from nearly 2 700 submissions Computational Science has rmly established itself as a vital part of many scienti c investigations a ecting researchers and practitioners in areas ranging from applications such as aerospace and automotive to emerging technologies such as bioinformatics and nanotechnologies to core disciplines such as ma ematics physics and chemistry Due to the shear size of many challenges in computational science the use of supercomputing parallel processing and phisticated algorithms is inevitable and becomes a part of fundamental t oretical

research as well as endeavors in emerging fields. Together these far reaching scientific areas contribute to shape this Conference in the realms of state of the art computational science research and applications encompassing the facilitating theoretical foundations and the innovative applications of such results in other areas

Mathematical Methods for Signal and Image Analysis and Representation

Luc Florack, Remco Duits, Geurt Jongbloed, Marie-Colette van Lieshout, Laurie Davies, 2012-01-12 Mathematical Methods for Signal and Image Analysis and Representation presents the mathematical methodology for generic image analysis tasks. In the context of this book an image may be any m dimensional empirical signal living on an n dimensional smooth manifold typically but not necessarily a subset of spacetime. The existing literature on image methodology is rather scattered and often limited to either a deterministic or a statistical point of view. In contrast this book brings together these seemingly different points of view in order to stress their conceptual relations and formal analogies. Furthermore it does not focus on specific applications although some are detailed for the sake of illustration but on the methodological frameworks on which such applications are built making it an ideal companion for those seeking a rigorous methodological basis for specific algorithms as well as for those interested in the fundamental methodology *per se*. Covering many topics at the forefront of current research including anisotropic diffusion filtering of tensor fields this book will be of particular interest to graduate and postgraduate students and researchers in the fields of computer vision, medical imaging and visual perception

Numerical and Analytical Methods for Scientists and Engineers Using Mathematica

Daniel Dubin, 2003-05-05 The electronic component of the book is based on the widely used and highly praised Mathematica software package. Each chapter of the book is a Mathematica notebook with links to web based material. The methods are applied to a range of problems taken from physics and engineering. The book covers elementary and advanced numerical methods used in modern scientific computing

[Computational Multiscale Modeling of Fluids and Solids](#) Martin Oliver Steinhauser, 2008 The idea of the book is to provide a comprehensive overview of computational physics methods and techniques that are used for materials modeling on different length and time scales. Each chapter first provides an overview of the physical basic principles which are the basis for the numerical and mathematical modeling on the respective length scale. The book includes the micro scale, the meso scale and the macro scale. The chapters follow this classification. The book will explain in detail many tricks of the trade of some of the most important methods and techniques that are used to simulate materials on the perspective levels of spatial and temporal resolution. Case studies are occasionally included to further illustrate some methods or theoretical considerations. Example applications for all techniques are provided, some of which are from the author's own contributions to some of the research areas. Methods are explained if possible on the basis of the original publications but also references to standard text books established in the various fields are mentioned

Cybernetics and Algorithms in Intelligent Systems

Radek Silhavy, 2018-05-16 This book presents new approaches and methods applied to real world problems and in particular exploratory research relating to novel approaches in the field

of cybernetics and automation control theory Particularly focusing on modern trends in selected fields of interest it presents new algorithms and methods in intelligent systems in cybernetics This book constitutes the third volume of the refereed proceedings of the Cybernetics and Algorithms in Intelligent Systems Section of the 7th Computer Science On line Conference 2018 CSOC 2018 held online in April 2018

Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Mathematical Methods Using Mathematica**

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