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Venkat R. Subramanian

Computational Methods in Chemical Engineering with Maple



Springer

Computational Methods In Chemical Engineering With Maple

Tomáš Bertók



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Computational Methods in Chemical Engineering with Maple Ralph E. White, Venkat R. Subramanian, 2010-02-06

This book presents Maple solutions to a wide range of problems relevant to chemical engineers and others. Many of these solutions use Maple's symbolic capability to help bridge the gap between analytical and numerical solutions. The readers are strongly encouraged to refer to the references included in the book for a better understanding of the physics involved and for the mathematical analysis. This book was written for a senior undergraduate or a first year graduate student course in chemical engineering. Most of the examples in this book were done in Maple 10. However, the codes should run in the most recent version of Maple. We strongly encourage the readers to use the classic worksheet mws option in Maple as we believe it is more user friendly and robust. In chapter one you will find an introduction to Maple which includes simple basics as a convenience for the reader such as plotting, solving linear and nonlinear equations, Laplace transformations, matrix operations, do loop and while loop. Chapter two presents linear ordinary differential equations in section 1 to include homogeneous and nonhomogeneous ODEs, solving systems of ODEs using the matrix exponential and Laplace transform method. In section two of chapter two, nonlinear ordinary differential equations are presented and include simultaneous series reactions, solving nonlinear ODEs with Maple's dsolve command, stop conditions, differential algebraic equations, and steady state solutions. Chapter three addresses boundary value problems.

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Mathematica Inna Shingareva, Carlos Lizárraga-Celaya, 2011-07-24. The emphasis of the book is given in how to construct different types of solutions: exact, approximate, analytical, numerical, graphical, of numerous nonlinear PDEs correctly, easily and quickly. The reader can learn a wide variety of techniques and solve numerous nonlinear PDEs included and many other differential equations, simplifying and transforming the equations and solutions, arbitrary functions and parameters presented in the book. Numerous comparisons and relationships between various types of solutions, different methods and approaches are provided. The results obtained in Maple and Mathematica facilitate a deeper understanding of the subject. Among a big number of CAS, we choose the two systems Maple and Mathematica that are used worldwide by students, research mathematicians, scientists and engineers. As in our previous books, we propose the idea to use in parallel both systems Maple and Mathematica since in many research problems frequently it is required to compare independent results obtained by using different computer algebra systems Maple and or Mathematica at all stages of the solution process. One of the main points related to CAS is based on the implementation of a whole solution method, e.g. starting from an analytical derivation of exact governing equations, constructing discretizations and analytical formulas of a numerical method, performing numerical procedure, obtaining various visualizations and comparing the numerical solution obtained with other types of solutions.

considered in the book e.g. with asymptotic solution

Glyconanotechnology Tomáš Bertók, 2019-11-08 Glycomics a comprehensive study of glycans often denoted as the third alphabet of molecular biology besides nucleic acids and proteins relies on techniques that use heavy machinery such as mass spectrometry liquid chromatography and capillary electrophoresis The use of biosensors and biochips for glycan analysis offers the possibility of lower costs lower time and sample consumption and ease of use This highly interdisciplinary book introduces students researchers and professionals to the broad scope of this area including the basics of nanotechnology and materials science glycomics and bioanalytical chemistry as well as several historical facts contexts and future perspectives The introductory chapters are utilized in the book later for the state of the art chapters on glycan based diagnostics and imaging enrichment techniques and therapy which makes this book unique and of great interest to a wide audience The authors are skilled specialists and research scientists with many years of experience in this area and former investigators on a prestigious European Research Council Starting Grant

Introduction to Convective Heat Transfer Nevzat Onur, 2023-04-18 INTRODUCTION TO CONVECTIVE HEAT TRANSFER A highly practical intro to solving real world convective heat transfer problems with MATLAB and MAPLE In *Introduction to Convective Heat Transfer* accomplished professor and mechanical engineer Nevzat Onur delivers an insightful exploration of the physical mechanisms of convective heat transfer and an accessible treatment of how to build mathematical models of these physical processes Providing a new perspective on convective heat transfer the book is comprised of twelve chapters all of which contain numerous practical examples The book emphasizes foundational concepts and is integrated with explanations of computational programs like MATLAB and MAPLE to offer students a practical outlet for the concepts discussed within The focus throughout is on practical physical analysis rather than mathematical detail which helps students learn to use the provided computational tools quickly and accurately In addition to a solutions manual for instructors and the aforementioned MAPLE and MATLAB files *Introduction to Convective Heat Transfer* includes A thorough introduction to the foundations of convective heat transfer including coordinate systems and continuum and thermodynamic equilibrium concepts Practical explorations of the fundamental equations of laminar convective heat transfer including integral formulation and differential formulation Comprehensive discussions of the equations of incompressible external laminar boundary layers including laminar flow forced convection and the thermal boundary layer concept In depth examinations of dimensional analysis including the dimensions of physical quantities dimensional homogeneity and dimensionless numbers Ideal for first year graduates in mechanical aerospace and chemical engineering *Introduction to Convective Heat Transfer* is also an indispensable resource for practicing engineers in academia and industry in the mechanical aerospace and chemical engineering fields

Recent Developments in Fractional Calculus: Theory, Applications, and Numerical Simulations Lakhveer Kaur, Pushpendra Kumar, 2025-05-30 This book discusses recent developments in fractional calculus and fractional differential equations in a very elaborative manner and is of interest to research scholars

academicians and scientists who want to enhance the knowledge in the context of new insights and mathematical ideas in fractional calculus and its emerging applications in various fields It focuses on strengthening the existing results along with identifying the practical challenges encountered The purpose of this collection is to provide comprehension of articles that reflect recent mathematical results as well as some results in applied sciences untouched by the tools and techniques of fractional calculus along with their modelling and computation having applications in diverse arenas

Problem Solving in Engineering Larry A. Glasgow, 2025-03-25 Bring mathematical principles to bear on engineering problems with this updated text The evolution of industrial processes has resulted in greater emphasis upon analytical and numerical problem solving Process improvement through experimentation is impractical and consequently engineers must rely upon computational and technical analysis Furthermore the ease with which time series data can be collected and processed has made harmonic signal interpretation routine Thus the ability of engineers to analyze model compute and interpret process phenomena is crucial to professional practice Problem Solving in Engineering meets these needs with a foundational introduction to mathematical techniques in applied sciences and engineering Incorporating examples from a range of scientific fields it communicates principles that can be adapted to many hardware software combinations Now fully updated to reflect the latest research and applications it remains an essential tool for engineers and applied scientists everywhere Readers of the second edition will also find Extensive time devoted to problem formulation Detailed discussion of integro differential equations and the processing and analysis of time series data The use of vorticity transport for the solution of momentum heat and mass transfer problems in two dimensions Examples and problems drawn from aviation telegraphy structural failures railroad operation chemical processes automatic process control seismology neutron diffusion gravitation and quantum theory Many additional narrative type exercises written to appeal to students who find problems in context better suited to their learning style Solutions manual available for qualified instructors Problem Solving in Engineering is ideal for advanced undergraduate graduate students and technical professionals in the physical sciences specifically chemical civil biochemical electrical and mechanical engineering as well as physics chemistry and biology

Applied Mathematical Methods for Chemical Engineers Norman W. Loney, 2016-03-09 This book uses worked examples to showcase several mathematical methods that are essential to solving real world process engineering problems The third edition includes additional examples related to process control Bessel Functions and contemporary areas such as drug delivery The author inserts more depth on specific applications such as nonhomogeneous cases of separation of variables adds a section on special types of matrices such as upper and lower triangular matrices incorporates examples related to biomedical engineering applications and expands the problem sets of numerous chapters

Applied Mathematical Methods for Chemical Engineers, Second Edition Norman W. Loney, 2006-09-22 Focusing on the application of mathematics to chemical engineering Applied Mathematical Methods for Chemical Engineers Second Edition addresses the setup and

verification of mathematical models using experimental or other independently derived data An expanded and updated version of its well respected predecessor this book uses worked examples to illustrate several mathematical methods that are essential in successfully solving process engineering problems The book first provides an introduction to differential equations that are common to chemical engineering followed by examples of first order and linear second order ordinary differential equations ODEs Later chapters examine Sturm Liouville problems Fourier series integrals linear partial differential equations PDEs and regular perturbation The author also focuses on examples of PDE applications as they relate to the various conservation laws practiced in chemical engineering The book concludes with discussions of dimensional analysis and the scaling of boundary value problems and presents selected numerical methods and available software packages New to the Second Edition Two popular approaches to model development shell balance and conservation law balance One dimensional rod model and a planar model of heat conduction in one direction Systems of first order ODEs Numerical method of lines using MATLAB and Mathematica where appropriate This invaluable resource provides a crucial introduction to mathematical methods for engineering and helps in choosing a suitable software package for computer based algebraic applications

Sustainability in the Design, Synthesis and Analysis of Chemical Engineering Processes

Gerardo Ruiz Mercado, Heriberto Cabezas, 2016-06-09 Sustainability in the Design Synthesis and Analysis of Chemical Engineering Processes is an edited collection of contributions from leaders in their field It takes a holistic view of sustainability in chemical and process engineering design and incorporates economic analysis and human dimensions Ruiz Mercado and Cabezas have brought to this book their experience of researching sustainable process design and life cycle sustainability evaluation to assist with development in government industry and academia This book takes a practical step by step approach to designing sustainable plants and processes by starting from chemical engineering fundamentals This method enables readers to achieve new process design approaches with high influence and less complexity It will also help to incorporate sustainability at the early stages of project life and build up multiple systems level perspectives Ruiz Mercado and Cabezas book is the only book on the market that looks at process sustainability from a chemical engineering fundamentals perspective Improve plants processes and products with sustainability in mind from conceptual design to life cycle assessment Avoid retro fitting costs by planning for sustainability concerns at the start of the design process Link sustainability to the chemical engineering fundamentals

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Table of Contents Computational Methods In Chemical Engineering With Maple

1. Understanding the eBook Computational Methods In Chemical Engineering With Maple
 - The Rise of Digital Reading Computational Methods In Chemical Engineering With Maple
 - Advantages of eBooks Over Traditional Books
2. Identifying Computational Methods In Chemical Engineering With Maple
 - 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 Computational Methods In Chemical Engineering With Maple
 - User-Friendly Interface
4. Exploring eBook Recommendations from Computational Methods In Chemical Engineering With Maple
 - Personalized Recommendations
 - Computational Methods In Chemical Engineering With Maple User Reviews and Ratings

- Computational Methods In Chemical Engineering With Maple and Bestseller Lists
- 5. Accessing Computational Methods In Chemical Engineering With Maple Free and Paid eBooks
 - Computational Methods In Chemical Engineering With Maple Public Domain eBooks
 - Computational Methods In Chemical Engineering With Maple eBook Subscription Services
 - Computational Methods In Chemical Engineering With Maple Budget-Friendly Options
- 6. Navigating Computational Methods In Chemical Engineering With Maple eBook Formats
 - ePub, PDF, MOBI, and More
 - Computational Methods In Chemical Engineering With Maple Compatibility with Devices
 - Computational Methods In Chemical Engineering With Maple Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Computational Methods In Chemical Engineering With Maple
 - Highlighting and Note-Taking Computational Methods In Chemical Engineering With Maple
 - Interactive Elements Computational Methods In Chemical Engineering With Maple
- 8. Staying Engaged with Computational Methods In Chemical Engineering With Maple
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Computational Methods In Chemical Engineering With Maple
- 9. Balancing eBooks and Physical Books Computational Methods In Chemical Engineering With Maple
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Computational Methods In Chemical Engineering With Maple
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Computational Methods In Chemical Engineering With Maple
 - Setting Reading Goals Computational Methods In Chemical Engineering With Maple
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Computational Methods In Chemical Engineering With Maple
 - Fact-Checking eBook Content of Computational Methods In Chemical Engineering With Maple
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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