

Numerical solutions of equations

You can solve equations of the form f(x) = 0 using the Newton-Raphson process

Use the Newton-Raphson process to find the root of the equation:

$$x^4 + x^2 = 80$$

Use x₀ = 3 and give your answer to 2 decimal places.

$$f(x) = x^4 + x^2 - 80$$

$$f'(x) = 4x^3 + 2x$$

$$x_0 = 3$$

$$x_1 = 2.912$$

$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

$$x_1 = x_0 - \frac{(x_0)^4 + (x_0)^2 - 80}{4(x_0)^3 + 2(x_0)}$$

$$x_1 = 3 - \frac{(3)^4 + (3)^2 - 80}{4(3)^3 + 2(3)}$$

$$x_1 = 2.912$$

Our current approximation is x₀, replace the fraction with equivalent expressions

Sub in $x_0 = 3$

Calculate

Bruce P. Minaker

Numerical Solution of Systems of Nonlinear Algebraic Equations George D. Byrne, Charles A. Hall, 2014-05-10 Numerical Solution of Systems of Nonlinear Algebraic Equations contains invited lectures of the NSF CBMS Regional Conference on the Numerical Solution of Nonlinear Algebraic Systems with Applications to Problems in Physics Engineering and Economics held on July 10 14 1972 This book is composed of 10 chapters and begins with the concepts of nonlinear algebraic equations in continuum mechanics The succeeding chapters deal with the numerical solution of quasilinear elliptic equations the nonlinear systems in semi infinite programming and the solution of large systems of linear algebraic equations These topics are followed by a survey of some computational techniques for the nonlinear least squares problem The remaining chapters explore the problem of nonlinear functional minimization the modification methods and the computer oriented algorithms for solving system These chapters also examine the principles of contractor theory of solving equations This book will prove useful to undergraduate and graduate students Numerical Solution of Systems of Nonlinear Algebraic Equations T. J. Ypma, University of Oxford, 1982 NSF-CBMS Regional Conference on the Numerical Solution of Nonlinear Algebraic Systems with Applications to Problems in Physics, Engineering, and Economics, University of Pittsburgh, 1972 George D. Byrne. **KWIC Index for Numerical Algebra** Alston Scott Householder,1972

Numerical Solution of Systems of Nonlinear Algebraic Equations ,1973 Numerical Methods for Nonlinear Algebraic Equations Philip Rabinowitz, British Computer Society. Numerical Analysis Specialist Group, 1970 Computational Mathematics in Engineering and Applied Science W.E. Schiesser, 2014-07-22 Computational Mathematics in Engineering and Applied Science provides numerical algorithms and associated software for solving a spectrum of problems in ordinary differential equations ODEs differential algebraic equations DAEs and partial differential equations PDEs that occur in science and engineering It presents detailed examples each **Optimization and Optimal Control in** Automotive Systems Harald Waschl, Ilya Kolmanovsky, Maarten Steinbuch, Luigi del Re, 2014-03-20 This book demonstrates the use of the optimization techniques that are becoming essential to meet the increasing stringency and variety of requirements for automotive systems It shows the reader how to move away from earlier approaches based on some degree of heuristics to the use of more and more common systematic methods Even systematic methods can be developed and applied in a large number of forms so the text collects contributions from across the theory methods and real world automotive applications of optimization Greater fuel economy significant reductions in permissible emissions new drivability requirements and the generally increasing complexity of automotive systems are among the criteria that the contributing authors set themselves to meet In many cases multiple and often conflicting requirements give rise to multi objective constrained optimization problems which are also considered Some of these problems fall into the domain of the traditional multi disciplinary optimization applied to system sub system or component design parameters and is performed based on

system models others require applications of optimization directly to experimental systems to determine either optimal calibration or the optimal control trajectory control law Optimization and Optimal Control in Automotive Systems reflects the state of the art in and promotes a comprehensive approach to optimization in automotive systems by addressing its different facets by discussing basic methods and showing practical approaches and specific applications of optimization to design and control problems for automotive systems The book will be of interest both to academic researchers either studying optimization or who have links with the automotive industry and to industrially based engineers and automotive designers

Numerical Solution of Systems of Nonlinear Algebraic Equations: Papers Presented at the NSF-CBMS Regional Conference, Held in Pittsburgh, Pa., July 1972 G.D. Byrne, C.A. Hall, 1973 Numerical Methods in Chemical Engineering Using Python® and Simulink® Nayef Ghasem, 2023-07-17 Numerical methods are vital to the practice of chemical engineering allowing for the solution of real world problems Written in a concise and practical format this textbook introduces readers to the numerical methods required in the discipline of chemical engineering and enables them to validate their solutions using both Python and Simulink Introduces numerical methods followed by the solution of linear and nonlinear algebraic equations Deals with the numerical integration of a definite function and solves initial and boundary value ordinary differential equations with different orders Weaves in examples of various numerical methods and validates solutions to each with Python and Simulink graphical programming Features appendices on how to use Python and Simulink Aimed at advanced undergraduate and graduate chemical engineering students as well as practicing chemical engineers this textbook offers a guide to the use of two of the most widely used programs in the discipline The textbook features numerous video lectures of applications and a solutions manual for qualifying instructors Gravity-Driven Water Flow in Networks Gerard F. Jones, 2011-12-29 Gravity driven water flow networks are a crucial method of delivering clean water to millions of people worldwide and an essential agricultural tool This book provides an all encompassing guide to designing these water networks combining theory and case studies It includes design formulas for water flow in single or multiple uniform or non uniform diameter pipe networks case studies on how systems are built used and maintained comprehensive coverage of pipe materials pressure ratings and dimensions and over 100 illustrations and tables It is a key resource both for working engineers and engineering students and instructors A Step by Step Approach to the Modeling of Chemical **Engineering Processes** Liliane Maria Ferrareso Lona, 2017-12-15 This book treats modeling and simulation in a simple way that builds on the existing knowledge and intuition of students They will learn how to build a model and solve it using Excel Most chemical engineering students feel a shiver down the spine when they see a set of complex mathematical equations generated from the modeling of a chemical engineering system This is because they usually do not understand how to achieve this mathematical model or they do not know how to solve the equations system without spending a lot of time and effort Trying to understand how to generate a set of mathematical equations to represent a physical system to model and

solve these equations to simulate is not a simple task A model most of the time takes into account all phenomena studied during a Chemical Engineering course In the same way there is a multitude of numerical methods that can be used to solve the same set of equations generated from the modeling and many different computational languages can be adopted to implement the numerical methods As a consequence of this comprehensiveness and combinatorial explosion of possibilities most books that deal with this subject are very extensive and embracing making need for a lot of time and effort to go through this subject It is expected that with this book the chemical engineering student and the future chemical engineer feel motivated to solve different practical problems involving chemical processes knowing they can do that in an easy and fast way with no need of expensive software Scientific and Technical Aerospace Reports, 1972 *Proceedings of the Tenth* Power Systems Computation Conference Graz Austria, 2016-06-06 Proceedings of the Tenth Power Systems Computation Conference CHEMICAL PROCESS MODELLING AND COMPUTER SIMULATION AMIYA K. JANA, 2011-11-05 This comprehensive and thoroughly revised text now in its second edition continues to present the fundamental concepts of how mathematical models of chemical processes are constructed and demonstrate their applications to the simulation of two of the very important chemical engineering systems the chemical reactors and distillation systems. The book provides an integrated treatment of process description mathematical modelling and dynamic simulation of realistic problems using the robust process model approach and its simulation with efficient numerical techniques Theoretical background materials on activity coefficient models equation of state models reaction kinetics and numerical solution techniques needed for the development of mathematical models are also addressed in the book The topics of discussion related to tanks heat exchangers chemical reactors both continuous and batch biochemical reactors continuous and fed batch distillation columns continuous and batch equilibrium flash vaporizer and refinery debutanizer column contain several worked out examples and case studies to teach students how chemical processes can be measured and monitored using computer programming The new edition includes two more chapters Reactive Distillation Column and Vaporizing Exchangers which will further strengthen the text This book is designed for senior level undergraduate and first year postgraduate level courses in Chemical Process Modelling and Simulation The book will also be useful for students of petrochemical engineering biotechnology and biochemical engineering It can serve as a guide for research scientists and practising engineers as well

Approximate Commutative Algebra Lorenzo Robbiano, John Abbott, 2009-09-18 Approximate Commutative Algebra is an emerging field of research which endeavours to bridge the gap between traditional exact Computational Commutative Algebra and approximate numerical computation The last 50 years have seen enormous progress in the realm of exact Computational Commutative Algebra and given the importance of polynomials in scientific modelling it is very natural to want to extend these ideas to handle approximate empirical data deriving from physical measurements of phenomena in the real world In this volume nine contributions from established researchers describe various approaches to tackling a variety of

problems arising in Approximate Commutative Algebra Advanced Power System Analysis and Dynamics L.P. Singh, 2006 This Book Is A Result Of Teaching Courses In The Areas Of Computer Methods In Power Systems Digital Simulation Of Power Systems Power System Dynamics And Advanced Protective Relaying To The Undergraduate And Graduate Students In Electrical Engineering At I I T Kanpur For A Number Of Years And Guiding Several Ph D And M Tech Thesis And B Tech Projects By The Author The Contents Of The Book Are Also Tested In Several Industrial And Oip Sponsored Courses Conducted By The Author As A Coordinator The Present Edition Includes A Sub Section On Solution Procedure To Include Transmission Losses Using Dynamic Programming In The Chapter On Economic Load Scheduling Of Power System In This Edition An Additional Chapter On Load Forecasting Has Also Been Included The Present Book Deals With Almost All The Aspects Of Modern Power System Analysis Such As Network Equations And Its Formulations Graph Theory Symmetries Inherent In Power System Components And Its Formulations Graph Theory Symmetries Inherent In Power System Components And Development Of Transformation Matrices Based Solely Upon Symmetries Feasibility Analysis And Modeling Of Multi Phase Systems Power System Modeling Including Detailed Analysis Of Synchronous Machines Induction Machines And Composite Loads Sparsity Techniques Economic Operation Of Power Systems Including Derivation Of Transmission Loss Equation From The Fundamental Solution Of Algebraic And Differential Equations And Power System Studies Such As Load Flow Fault Analysis And Transient Stability Studies Of A Large Scale Power System Including Modern And Related Topics Such As Advanced Protective Relaying Digital Protection And Load Forecasting The Book Contains Solved Examples In These Areas And Also Flow Diagrams Which Will Help On One Hand To Understand The Theory And On The Other Hand It Will Help The Simulation Of Large Scale Power Systems On The Digital Computer The Book Will Be Easy To Read And Understand And Will Be Useful To Both Undergraduate And Graduate Students In Electrical Engineering As Well As To The CHEMICAL PROCESS MODELLING AND COMPUTER Engineers Working In Electricity Boards And Utilities Etc SIMULATION, THIRD EDITION JANA, AMIYA K., 2018-01-01 This comprehensive and thoroughly revised text now in its third edition continues to present the fundamental concepts of how mathematical models of chemical processes are constructed and demonstrate their applications to the simulation of three of the very important chemical engineering systems the chemical reactors distillation systems and vaporizing processes The book provides an integrated treatment of process description mathematical modelling and dynamic simulation of realistic problems using the robust process model approach and its simulation with efficient numerical techniques Theoretical background materials on activity coefficient models equation of state models reaction kinetics and numerical solution techniques needed for the development and simulation of mathematical models are also addressed in the book The topics of discussion related to tanks heat exchangers chemical reactors both continuous and batch biochemical reactors continuous and fed batch distillation columns continuous and batch equilibrium flash vaporizer refinery debutanizer column evaporator and steam generator contain several worked out

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