

# Computational Methods for Engineers

#### Lecture 2

Reuel C. Pallugna

# Topics

m();

- Roots of equations
  - Open Methods
    - Fixed point iteration Method
    - Newton Raphson Method
    - Secant Method
    - Polynomials using Matlab
- Solutions to Linear Algebraic Equations
- Curve Fitting
- Numerical Differentiation and Integration
- Numerical Solutions to Ordinary Differential Equations
- Numerical Solution to Partial Differential Equations

# **Fixed Point Iteration Method**



- This is called a method of successive substitution
- A function f(x) is rearranged such that the x is on the left side of the equation

Example: Solve for the roots of

 $f(x) = e^{-x} - x$ 

etting with an initial graves of  $z_n = 0$ , this iterative espection can be applied to com-

# **Basic Computational Techniques For Engineers**

**Michael E. McCormick** 

#### **Basic Computational Techniques For Engineers:**

Basic Computational Techniques for Engineers R. A. Adey, C. A. Brebbia, 1983 What Every Engineer Should Know about Computational Techniques of Finite Element Analysis Louis Komzsik, 2016-04-19 Finite element analysis FEA has become the dominant tool of analysis in many industrial fields of engineering particularly in mechanical and aerospace engineering This process requires significant computational work divided into several distinct phases What Every Engineer Should Know About Computational Techniques of Finite Element Analysis of **Modern Computational Techniques for** Engineering Applications Krishan Arora, Vikram Kumar, Deepak Prashar, Suman Lata Tripathi, 2023-07-21 Modern Computational Techniques for Engineering Applications presents recent computational techniques used in the advancement of modern grids with the integration of non conventional energy sources like wind and solar energy It covers data analytics tools for smart cities smart towns and smart computing for sustainable development This book Discusses the importance of renewable energy source applications wind turbines and solar panels for electrical grids Presents optimization based computing techniques like fuzzy logic neural networks and genetic algorithms that enhance the computational speed Showcases cloud computing tools and methodologies such as cybersecurity testbeds and data security for better accuracy of data Covers novel concepts on artificial neural networks fuzzy systems machine learning and artificial intelligence techniques Highlights application based case studies including cloud computing optimization methods and the Industrial Internet of Things The book comprehensively introduces modern computational techniques starting from basic tools to highly advanced procedures and their applications It further highlights artificial neural networks fuzzy systems machine learning and artificial intelligence techniques and how they form the basis for algorithms It presents application based case studies on cloud computing optimization methods blockchain technology fog and edge computing and the Industrial Internet of Things It will be a valuable resource for senior undergraduates graduate students and academic researchers in diverse fields including electrical engineering electronics and communications engineering and computer engineering Handbook of Research on Advanced Computational Techniques for Simulation-Based Engineering Samui, Pijush, 2015-11-30 Recent developments in information processing systems have driven the advancement of computational methods in the engineering realm New models and simulations enable better solutions for problem solving and overall process improvement The Handbook of Research on Advanced Computational Techniques for Simulation Based Engineering is an authoritative reference work representing the latest scholarly research on the application of computational models to improve the quality of engineering design Featuring extensive coverage on a range of topics from various engineering disciplines including but not limited to soft computing methods comparative studies and hybrid approaches this book is a comprehensive reference source for students professional engineers and researchers interested in the application of computational methods for engineering design Basics of Thermodynamics for Engineers Cybellium Ltd, 2024-10-26 Designed for professionals

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Badiru, Samuel O. Osisanya, 2013-01-23 Project management for oil and gas projects comes with a unique set of challenges that include the management of science technology and engineering aspects Underlining the specific issues involved in projects in this field Project Management for the Oil and Gas Industry A World System Approach presents step by step application of project management techniques Using the Project Management Body of Knowledge PMBOK framework from the Project Management Institute PMI as the platform the book provides an integrated approach that covers the concepts tools and techniques for managing oil and gas projects The authors discuss specialized tools such as plan do check act PDCA define measure analyze improve control DMAIC suppliers inputs process outputs customers SIPOC design evaluate justify integrate DEJI quality function deployment QFD affinity diagrams flowcharts Pareto charts and histograms They also discuss the major activities in oil and gas risk assessment such as feasibility studies design transportation utility survey works construction permanent structure works mechanical and electrical installations and maintenance Strongly advocating a world systems approach to managing oil and gas projects and programs the book covers quantitative and qualitative techniques It addresses technical and managerial aspects of projects and illustrates the concepts with case examples of applications of project management tools and techniques to real life project scenarios that can serve as lessons learned for best practices An in depth examination of project management for oil and gas projects the book is a handbook for professionals in the field a guidebook for technical consultants and a resource for students Computational Techniques for Chemical Engineers C. Storey, H. H. Rosenbrock, 2013-10-22 Computational Techniques for Chemical Engineers offers a practical guide to the chemical engineer faced with a problem of computing The computer is a servant not a master its value depends on the instructions it is given This book aims to help the chemical engineer in the right choice of these instructions The text begins by outlining the principles of operation of digital and analogue computers and then discussing the difficulties which arise in formulating a problem for solution on such a machine This is followed by separate chapters on digital computers and their programming the use of digital computers in chemical engineering design work optimization techniques and their application in the selection of optimum designs the solution of sets of non linear algebraic equations via hill climbing and determination of equilibrium compositions by minimization of Gibbs free energy Subsequent chapters discuss the solution of partial or simultaneous differential equations parameter estimation in differential equations continuous systems and analogue computers Introduction to Computational Earthquake Engineering Muneo Hori, 2011 Covers solid continuum mechanics finite element method and stochastic modeling comprehensively This book explains the numerical simulation of strong ground motion and faulting It details examples of applying computational science technology to earthquake engineering problems Matrix, Numerical, and Optimization Methods in Science and Engineering Kevin W. Cassel, 2021-03-04 Vector and matrix algebra Algebraic eigenproblems and their applications Differential eigenproblems and their applications Vector and matrix calculus Analysis of discrete dynamical systems Computational linear algebra Numerical

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### **Table of Contents Basic Computational Techniques For Engineers**

- 1. Understanding the eBook Basic Computational Techniques For Engineers
  - The Rise of Digital Reading Basic Computational Techniques For Engineers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Basic Computational Techniques For Engineers
  - 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 Basic Computational Techniques For Engineers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Basic Computational Techniques For Engineers
  - Personalized Recommendations
  - $\circ\,$  Basic Computational Techniques For Engineers User Reviews and Ratings
  - Basic Computational Techniques For Engineers and Bestseller Lists
- 5. Accessing Basic Computational Techniques For Engineers Free and Paid eBooks
  - Basic Computational Techniques For Engineers Public Domain eBooks
  - Basic Computational Techniques For Engineers eBook Subscription Services
  - Basic Computational Techniques For Engineers Budget-Friendly Options

- 6. Navigating Basic Computational Techniques For Engineers eBook Formats
  - o ePub, PDF, MOBI, and More
  - Basic Computational Techniques For Engineers Compatibility with Devices
  - Basic Computational Techniques For Engineers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Basic Computational Techniques For Engineers
  - Highlighting and Note-Taking Basic Computational Techniques For Engineers
  - Interactive Elements Basic Computational Techniques For Engineers
- 8. Staying Engaged with Basic Computational Techniques For Engineers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Basic Computational Techniques For Engineers
- 9. Balancing eBooks and Physical Books Basic Computational Techniques For Engineers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Basic Computational Techniques For Engineers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Basic Computational Techniques For Engineers
  - Setting Reading Goals Basic Computational Techniques For Engineers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Basic Computational Techniques For Engineers
  - Fact-Checking eBook Content of Basic Computational Techniques For Engineers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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