



Introduction to Numerical Methods

Unit

12

12.1 Numerical Solution of Non-linear Equations

12.1.1 Describe importance of numerical methods

Till now, all the methods we have learnt to solve the non-linear equation and finding of the derivative or integration of functions are analytical methods.

When analytic approaches are failed to find the solution of a non-linear equation or require too many tedious computations then, mathematicians used numerical methods to compute approximate solution. Therefore, numerical methods have great importance in the field of mathematics.

12.1.2 Explain the basic principles of solving a non-linear equation in one variable

The basic principle of solving a non-linear equation is to find the interval (values of a and b) for a function $f(x)$, where $f(a)$ and $f(b)$ are of opposite signs such that $f(a) \cdot f(b) < 0$, then the root of $f(x) = 0$ lies in the interval $[a, b]$.

For example, $f(x) = x^3 - 2x - 5$, put the values of $x = 0, 1, 2, 3$ in $f(x)$, we get

$$f(0) = (0)^3 - 2(0) - 5 = -5$$

$$f(1) = (1)^3 - 2(1) - 5 = -6$$

$$f(2) = (2)^3 - 2(2) - 5 = -1$$

$$f(3) = (2)^3 - 2(3) - 5 = 16$$

Here $f(2) = -1 < 0$ (-ve) and $f(3) = 16 > 0$ (+ve), such that $f(2) \cdot f(3) = (-1) \cdot (16) = -16 < 0$.

Now, root lies in the interval $[a, b] = [2, 3]$.

12.1.3 Calculate the real roots of a non-linear equation in one variable by

- Bisection method
- regula-falsi method
- Newton-Raphson method

• Bisection Method

The bisection technique is a root-finding method which repeatedly bisects an interval and then selects a sub-interval in which a root must lie for further processing. It is a very easy and reliable procedure.

Algorithm of a Bisection method

If $f(x)$ is a continuous function over an interval, then to find the root of $f(x) = 0$ by bisection method, following steps are taken.

Numerical Methods Unit Guide

Bonnie A. Osif



Numerical Methods Unit Guide:

Numerical Methods School Mathematics Project, John Higgo, 1992 The aim of 16 19 Mathematics has been to produce a course which while challenging is accessible and enjoyable to all students The course develops ability and confidence in mathematics and its applications together with an appreciation of how mathematical ideas help in the understanding of the world and society in which we live The unit guide contains an introduction to the unit stating the objectives advice on teaching and working through the unit commentaries on the discussion points and tasksheets in the student s text

Handbook of Data Analysis Melissa A Hardy, Alan Bryman, 2009-06-17 This book provides an excellent reference guide to basic theoretical arguments practical quantitative techniques and the methodologies that the majority of social science researchers are likely to require for postgraduate study and beyond Environment and Planning The book provides researchers with guidance in and examples of both quantitative and qualitative modes of analysis written by leading practitioners in the field The editors give a persuasive account of the commonalities of purpose that exist across both modes as well as demonstrating a keen awareness of the different things that each offers the practising researcher Clive Seale Brunel University With the appearance of this handbook data analysts no longer have to consult dozens of disparate publications to carry out their work The essential tools for an intelligent telling of the data story are offered here in thirty chapters written by recognized experts Michael Lewis Beck F Wendell Miller Distinguished Professor of Political Science University of Iowa This is an excellent guide to current issues in the analysis of social science data I recommend it to anyone who is looking for authoritative introductions to the state of the art Each chapter offers a comprehensive review and an extensive bibliography and will be invaluable to researchers wanting to update themselves about modern developments Professor Nigel Gilbert Pro Vice Chancellor and Professor of Sociology University of Surrey This is a book that will rapidly be recognized as the bible for social researchers It provides a first class reliable guide to the basic issues in data analysis such as the construction of variables the characterization of distributions and the notions of inference Scholars and students can turn to it for teaching and applied needs with confidence The book also seeks to enhance debate in the field by tackling more advanced topics such as models of change causality panel models and network analysis Specialists will find much food for thought in these chapters A distinctive feature of the book is the breadth of coverage No other book provides a better one stop survey of the field of data analysis In 30 specially commissioned chapters the editors aim to encourage readers to develop an appreciation of the range of analytic options available so they can choose a research problem and then develop a suitable approach to data analysis

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Charles Lord, 2000-08-15 The only source that focuses exclusively on engineering and technology this important guide maps the dynamic and changing field of information sources published for engineers in recent years Lord highlights basic perspectives access tools and English language resources directories encyclopedias yearbooks dictionaries databases indexes libraries buyer's guides Internet resources and more Substantial emphasis is placed on digital resources The author also discusses how engineers and scientists use information the culture and generation of scientific information different types of engineering information and the tools and resources you need to locate and access that material Other sections describe regulations standards and specifications government resources professional and trade associations and education and career resources Engineers scientists librarians and other information professionals working with engineering and technology information will welcome this research

Proceedings of the 2023 9th International Conference on Advances in Energy Resources and Environment Engineering (ICAESEE 2023) Abd El-Fatah Abomohra, Rongkui Su, Md Wasikur Rahman, Jiwei Wen, 2024-05-13 This is an open access book 2023 9th International Conference on Advances in Energy Resources and Environment Engineering ICAESEE 2023 will be held on December 29-31 2023 in Sanya China ICAESEE 2023 is to bring together innovative academics and industrial experts in the field of energy resources and environment engineering to a common forum The primary goal of the conference is to promote research and developmental activities in energy resources and environment engineering and another goal is to promote scientific information interchange between researchers developers engineers students and practitioners working all around the world The conference will be held every year to make it an ideal platform for people to share views and experiences in energy resources and environment engineering and related areas

Design Engineer's Reference Guide Keith L. Richards, 2014-03-11 Author Keith L Richards believes that design engineers spend only a small fraction of time actually designing and drawing and the remainder of their time finding relevant design information for a specific method or problem He draws on his own experience as a mechanical engineering designer to offer assistance to other practicing and student engineers facing the same struggle Design Engineer's Reference Guide Mathematics Mechanics and Thermodynamics provides engineers with a roadmap for navigating through common situations or dilemmas This book starts off by introducing reference information on the coverage of differential and integral calculus Laplace's transforms determinants and matrices It provides a numerical analysis on numerical methods of integration Newton Raphson's methods the Jacobi iterative method and the Gauss Seidel method It also contains reference information as well as examples and illustrations that reinforce the topics of most chapter subjects A companion to the Design Engineer's Handbook and Design Engineer's Case Studies and Examples this textbook covers a range of basic engineering concepts and common applications including Mathematics Numerical analysis Statics and kinematics Mechanical vibrations Control system modeling Basic thermodynamics Fluid mechanics and linkages An entry level text for students needing to understand the underlying principles before progressing to a more advanced level Design Engineer's Reference Guide Mathematics

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Wai-Fah Chen, Lian Duan, 2014-01-24 Over 140 experts 14 countries and 89 chapters are represented in the second edition of the Bridge Engineering Handbook This extensive collection provides detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the subject and also highlights bridges from around the world This second edition of the bestselling Bridge Engineering Handbook covers virtually all the information an engineer would need to know about any type of bridge from planning to construction to maintenance It contains more than 2 500 tables charts and illustrations in a practical ready to use format An abundance of worked out examples gives readers numerous practical step by step design procedures Special attention is given to rehabilitation retrofit and maintenance Coverage also includes seismic design and building materials Thoroughly revised and updated this second edition contains 26 new chapters

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