

Numerical methods viva – voce questions

Experiment no. 1: C program for finding smallest positive root of an equation by Bisection method

- 1) What do you mean by root of an equation?
- 2) In bisection method every time we reduce the interval by half? True or False?
- 3) What do you mean by algebraic equation?
- 4) What do you mean by transcendental equation?
- 5) How a given number is normalized?
- 6) What is intermediate value theorem?
- 7) Does bisection method give guarantee of convergence?
- 8) As compared to other iteration methods, does bisection method takes more number of iterations?
- 9) Do we apply intermediate value theorem repeatedly in bisection method?
- 10) What is the graphical meaning of Bisection method?
- 11) Explain bisection method?
- 12) What is the use of function fabs in C?
- 13) What is the use of function sqrt in C?
- 14) Name some commonly used mathematical functions in C?
- 15) Name some commonly used header files in C?
- 16) What is the syntax of for loop in C?
- 17) What is the syntax of if loop in C?
- 18) What are the different methods of finding root of an equation?
- 19) What is the difference between library functions and user defined functions in C?
- 20) What is the formula for finding the root by using the bisection method?
- 21) What is the formula of iteration by bisection method?
- 22) What are the variables a and b in bisection method program?
- 23) What is aerr in bisection method program?
- 24) What is maxitr in bisection method program?
- 25) Bisection method is also called as _____

Numerical Analysis Viva Questions

Robert D. Ficalora



Numerical Analysis Viva Questions

Stochastic Calculus and Probability Quant Interview Questions Ivan Matic, Rados Radoicic, Dan

Stefanica, 2020-06-04

Against the Tide

L.C Woods, 2000-01-01

In *Against the Tide* An Autobiographical Account of a Professional Outsider Leslie Woods relates the fascinating story of his life from fisherman's son in New Zealand to head of the Mathematical Institute at the University of Oxford. After starting at a trade school he won a scholarship to a university then joined the RNZAF and later became a fighter pilot in the Pacific. Woods then won a Rhodes scholarship to Merton College in Oxford after WWII. Following several years of research in aerodynamics he became a professor of engineering at the University of New South Wales. He also had a fellowship with Oxford's Balliol College and had a consultancy at Culham Laboratory where he researched the theory of magnetically confined hot plasmas. In 1970 Woods became a professor of plasma theory yet became disillusioned with the fusion energy project which he believes survived on exaggerated claims of progress. Besides recounting his history Woods explains why magnetic fusion has failed to succeed and outlines the philosophy of science to which he subscribes. He writes frankly about both his successes and failures and finishes with an account of his taking up gliding at the age of 74.

Computer Based Numerical & Statistical Techniques Goyal, 2005

Data Science and Machine Learning Dirk P. Kroese, Zdravko Botev, Thomas Taimre, Radislav Vaisman, 2019-11-20

Focuses on mathematical understanding. Presentation is self-contained, accessible, and comprehensive. Full color throughout. Extensive list of exercises and worked out examples. Many concrete algorithms with actual code. *Practical Finite Element Analysis* Nitin S. Gokhale, 2008. Highlights of the book. Discussion about all the fields of Computer Aided Engineering. Finite Element Analysis. Sharing of worldwide experience by more than 10 working professionals. Emphasis on Practical usage and minimum mathematics. Simple language. More than 1000 colour images. International quality printing on specially imported paper. Why this book has been written. FEA is gaining popularity day by day, is a sought after dream career for mechanical engineers. Enthusiastic engineers and managers who want to refresh or update the knowledge on FEA are encountered with volume of published books. Often professionals realize that they are not in touch with theoretical concepts as being pre-requisite and find it too mathematical and Hi-Fi. Many a times these books just end up being decoration in their bookshelves. All the authors of this book are from IIT's IISc and after joining the industry realized gap between university education and the practical FEA. Over the years they learned it via interaction with experts from international community sharing experience with each other and hard route of trial and error method. The basic aim of this book is to share the knowledge practices used in the industry with experienced and in particular beginners so as to reduce the learning curve, avoid reinvention of the wheel. Emphasis is on simple language, practical usage, minimum mathematics, no pre-requisites. All basic concepts of engineering are included as where it is required. It is hoped that this book would be helpful to beginners.

experienced users managers group leaders and as additional reading material for university courses Topics in Numerical Analysis G. Alefeld, Xiaojun Chen, 2012-12-06 This volume contains eighteen papers submitted in celebration of the sixty fifth birthday of Professor Tetsuro Yamamoto of Ehime University Professor Yamamoto was born in Tottori Japan on January 4 1937 He obtained his B S and M S in mathematics from Hiroshima University in 1959 and 1961 respectively In 1966 he took a lecturer position in the Department of Mathematics Faculty of General Education Hiroshima University and obtained his Ph D degree from Hiroshima University two years later In 1969 he moved to the Department of Applied Mathematics Faculty of Engineering Ehime University as an associate professor and he has been a full professor of the Department of Mathematics now Department of Mathematical Sciences Faculty of Science since 1975 At the early stage of his study he was interested in algebraic eigen value problems and linear iterative methods He published some papers on these topics in high level international journals After moving to Ehime University he started his research on Newton s method and Newton like methods for nonlinear operator equations He published many papers on error estimates of the methods He established the remarkable result that all the known error bounds for Newton s method under the Kantorovich assumptions follow from the Newton Kantorovich theorem which put a period to the race of finding sharper error bounds for Newton s method

Basic Orthopaedic Sciences Manoj Ramachandran, 2018-09-03 Following on from the highly successful first edition published in 2006 the second edition of Basic Orthopaedic Sciences has been fully updated and revised with every chapter rewritten to reflect the latest research and practice The book encompasses all aspects of musculoskeletal basic sciences that are relevant to the practice of orthopaedics and that are featured and assessed in higher specialty exams While its emphasis is on revision the book contains enough information to serve as a concise textbook making it an invaluable guide for all trainees in orthopaedics and trauma preparing for the FRCS Tr Orth as well as for surgeons at MRCS level and other clinicians seeking an authoritative guide The book helps the reader understand the science that underpins the clinical practice of orthopaedics an often neglected area in orthopaedic training achieving a balance between readability and comprehensive detail Topics covered include biomechanics biomaterials cell microbiology histology structure function immunology pharmacology statistics physics of imaging techniques and kinesiology

Programmed Statistics (Question-Answers) B.L. Agarwal, 2007 This Book Covers A Wide Range Of Topics In Statistics With Conceptual Analysis Mathematical Formulas And Adequate Details In Question Answer Form It Furnishes A Comprehensive Overview Of Statistics In A Lucid Manner The Book Provides Ready Made Material For All Inquisitive Minds To Help Them Prepare For Any Traditional Or Internal Grading System Examination Competitions Interviews Viva Voce And Applied Statistics Courses One Will Not Have To Run From Pillar To Post For Guidance In Statistics The Answers Are Self Explanatory For Objective Type Questions At Many Places The Answers Are Given With Proper Hints Fill In The Blanks Given In Each Chapter Will Enable The Readers To Revise Their Knowledge In A Short Span Of Time An Adequate Number Of Multiple Choice Questions Inculcate A Deep Understanding Of

The Concepts The Book Also Provides A Good Number Of Numerical Problems Each Of Which Requires Fresh Thinking For Its Solution It Will Also Facilitate The Teachers To A Great Extent In Teaching A Large Number Of Courses As One Will Get A Plethora Of Matter At One Place About Any Topic In A Systematic And Logical Manner The Book Can Also Serve As An Exhaustive Text **RUDIMENTS OF COMPUTER SCIENCE** JOYRUP BHATTACHARYA,2014-09-01 **The Journey to**

Dissertation Success Elizabeth Laycock,Tim Howarth,Paul Watson,2016-06-10 Are you about to embark on a research project for the first time Unsure which data collection methods are right for your study Don t know where to start By presenting the reader with a series of key research management questions this book introduces the novice researcher to a range of research designs and data collection methods Building an understanding of these choices and how they can impact on the dissertation itself will lead to a more robust and rigorous dissertation study This book is designed to direct your research choices with informative text and key questions advice from virtual supervisors and reflections from students Lists of suggested further reading also help to support you on your journey to developing an organised and successful dissertation project Researchers seeking support on their journey to a successful dissertation will find this book a valuable resource

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Griffiths,2009-03-16 Presents numerical methods and computer code in Matlab for the solution of ODEs and PDEs with detailed line by line discussion **Ace the Data Science Interview** Kevin Huo,Nick Singh,2021 **AN INTRODUCTION TO NUMERICAL ANALYSIS, 2ND ED** Kendall E. Atkinson,2008-09 Market_Desc Mathematics Students Instructors About The Book This Second Edition of a standard numerical analysis text retains organization of the original edition but all

sections have been revised some extensively and bibliographies have been updated New topics covered include optimization trigonometric interpolation and the fast Fourier transform numerical differentiation the method of lines boundary value problems the conjugate gradient method and the least squares solutions of systems of linear equations [Examination Decrees and Regulations](#) University of Oxford,1982 [Mayo Clinic Internal Medicine Board Review Questions and Answers](#) Robert D. Ficalora,2013-08-15 Companion volume to Mayo Clinic internal medicine board review 10th ed c2013

[Introduction To Numerical Analysis](#) S. Baskar,S. Ganesh,2020-10-08 This book entitled Introduction to Numerical Analysis has been designed for Science Engineering Mathematics and Statistics undergraduate students as a part of their Numerical Analysis Course A look of the contents of the book will give the reader a clear idea of the variety of numerical methods discussed and analysed The book has been written in a very detail manner Numerous solved and unsolved problem are given [Qualitative Research Methods](#) Monique Hennink,Inge Hutter,Ajay Bailey,2010-11-30 Lecturers click here to request an e inspection copy of this text Qualitative Research Methods is based on the authors highly successful multidisciplinary qualitative methods workshops which have been conducted for over a decade In this book the authors propose a qualitative research cycle that leads students through the selection of appropriate methods the collection of data and the transformation of findings into a finished project It provides a clear explanation of the nature of qualitative research and its key concepts Topics covered include o formulating qualitative research questions o ethical issues o in depth interviews o focus group discussions o observation o coding o data analysis o writing up qualitative research This text is ideal for any students taking a qualitative methods course or producing a qualitative research project at undergraduate or graduate level It is illustrated throughout with case studies and field examples from a range of international contexts The practical techniques are also accompanied by the author s own research tools including interview guides real coded data and comprehensive research checklists

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