MATLAB Source Code: Bisection Method

```matlab
% Clearing Screen
clc

% Setting x as symbolic variable
syms x;

% Input Section
y = input('Enter non-linear equations: ');
a = input('Enter first guess: ');
b = input('Enter second guess: ');
e = input('Tolerable error: ');

% Finding Functional Value
fa = eval(subs(y,x,a));
fb = eval(subs(y,x,b));

% Implementing Bisection Method
if fa*fb > 0
    disp('Given initial values do not bracket
the root.');
else
    c = (a+b)/2;
    fc = eval(subs(y,x,c));
```

[Matlab Source Code For Manet](#)

KJ Lindholm-Leary

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   Smart Trends in Information Technology and Computer Communications A.V. Deshpande,Aynur Unal,Kalpdrum Passi,Dharm Singh,Malaya Nayak,Bharat Patel,Shafi Pathan,2018-08-20 This book constitutes the refereed proceedings of the Second International Conference on Smart Trends in Information Technology and Computer Communications SmartCom 2017 held in Pune India in August 2017 The 38 revised papers presented were carefully reviewed and selected from 310 submissions The papers address issues on smart and secure systems smart and service computing smart data and IT innovations   Embedded Computing for High Performance João Manuel Paiva Cardoso,José Gabriel de Figueiredo Coutinho,Pedro C. Diniz,2017-06-13 Embedded Computing for High Performance Design Exploration and Customization Using High level Compilation and Synthesis Tools provides a set of real life example implementations that migrate traditional desktop systems to embedded systems Working with popular hardware including Xilinx and ARM the book offers a comprehensive description of techniques for mapping computations expressed in programming languages such as C or MATLAB to high performance embedded architectures consisting of multiple CPUs GPUs and reconfigurable hardware FPGAs The authors demonstrate a domain specific language LARA that facilitates retargeting to multiple computing systems using the same source code In this way users can decouple original application code from transformed code and enhance productivity and program portability After reading this book engineers will understand the processes methodologies and best practices needed for the development of applications for high performance embedded computing systems Focuses on maximizing performance while managing energy consumption in embedded systems Explains how to retarget code for heterogeneous systems with GPUs and FPGAs Demonstrates a domain specific language that facilitates migrating and retargeting existing applications to modern systems Includes downloadable slides tools and tutorials   **Spectrum Sharing in Cognitive Radio Networks** Prabhat Thakur,Ghanshyam Singh,2021-06-22 SPECTRUM SHARING IN COGNITIVE RADIO NETWORKS Discover the latest advances in spectrum sharing in wireless networks from two internationally recognized experts in the field Spectrum Sharing in Cognitive Radio Networks Towards Highly Connected Environments delivers an in depth and insightful examination of hybrid spectrum access techniques with advanced frame structures designed for efficient spectrum utilization The accomplished authors present the energy and spectrum efficient frameworks used in high demand distributed architectures by relying on the self scheduled medium access control SMC MAC protocol in cognitive radio networks The book begins with an exploration of the fundamentals of recent advances in spectrum sharing techniques before moving onto advanced frame structures with spectrum accessing approaches and the role of spectrum prediction and spectrum monitoring to eliminate interference The authors also cover spectrum mobility interference and spectrum management for connected environments in substantial detail Spectrum Sharing in Cognitive Radio Networks Towards Highly Connected Environments offers readers a recent and rational theoretical mathematical model of spectrum sharing

strategies that can be used for practical simulation of future generation wireless communication technologies It also highlights ongoing trends revealing fresh research outcomes that will be of interest to active researchers in the area Readers will also benefit from An inclusive study of connected environments 3GPP Releases and the evolution of wireless communication generations with a discussion of advanced frame structures and access strategies in cognitive radio networks A treatment of cognitive radio networks using spectrum prediction and monitoring techniques An analysis of the effects of imperfect spectrum monitoring on cognitive radio networks An exploration of spectrum mobility in cognitive radio networks using spectrum prediction and monitoring techniques An examination of MIMO based CR NOMA communication systems for spectral and interference efficient designs Perfect for senior undergraduate and graduate students in Electrical and Electronics Communication Engineering programs Spectrum Sharing in Cognitive Radio Networks Towards Highly Connected Environments will also earn a place in the libraries of professional engineers and researchers working in the field whether in private industry government or academia   *Dissertation Abstracts International* ,2006   **International Conference on Mobile Computing and Sustainable Informatics** Jennifer S. Raj,2020-11-30 Sustainability and mobile computing embraces a wide range of Information and Communication Technologies ICT in recent times This book focuses more on the recent research and development works in almost all the facets of sustainable ubiquitous computing and communication paradigm The recent research efforts on this evolving paradigm help to advance the technologies for next generation where socio economic growth and sustainability poses significant challenges to the computing and communication infrastructures The main purpose of this book is to promote the technical advances and impacts of sustainability and mobile computing to the informatics research The key strands of this book include green computing predictive models mobility data analytics mobile computing optimization Quality of Service QoS new communicating and computing frameworks human computer interaction Artificial Intelligence AI communication networks risk management Ubiquitous computing robotics smart city and applications The book has also addressed myriad of sustainability challenges in various computing and information processing infrastructures   Ad-Hoc, Mobile, and Wireless Networks Thomas Hans Kunz,Thomas Kunz,S.S. Ravi,2006-08-03 Here are the refereed proceedings of the 5th International Conference on Ad Hoc Networks and Wireless ADHOC NOW 2006 held in Ottawa Canada August 2006 The book presents 25 revised full papers and 10 revised short papers together with abstracts of 2 invited talks in sections on routing in sensor networks Routing in MANET short papers on routing security wireless MAC short papers on security QoS and TCP and upper layer issues   **Wireless Sensor Networks** Shafiullah Khan,Al-Sakib Khan Pathan,Nabil Ali Alrajeh,2016-04-21 Wireless sensor networks WSNs utilize fast cheap and effective applications to imitate the human intelligence capability of sensing on a wider distributed scale But acquiring data from the deployment area of a WSN is not always easy and multiple issues arise including the limited resources of sensor devices run with one time batteries Additi   Intrusion Detection and Prevention

Georgios Kambourakis,Asaf Shabtai,Constantinos Kolias,Dimitrios Damopoulos,2017-09-06 This book presents state of the art contributions from both scientists and practitioners working in intrusion detection and prevention for mobile networks services and devices It covers fundamental theory techniques applications as well as practical experiences concerning intrusion detection and prevention for the mobile ecosystem It also includes surveys simulations practical results and case studies **Energy Research Abstracts** ,1993 Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information ,2007 *Programming in MATLAB* Patel,Mittal,2014 MATLAB provides an interactive programming interface for numerical computation and data visualization making it the default framework used for analysis design and research in many domains of science and industry Programming in MATLAB A problem solving approach is intended as an aid to engineers and scientists with no prior programming expertise The book focuses on the systematic development of practical programming skills through MATLAB language constructs backed by several well designed examples and exercises Designed to be as much a MATLAB reference tool for researchers in varied fields as it is a guide for undergraduate readers the book builds on the concepts sequentially as it progresses through the chapters Each chapter is complete independent of the book s remaining contents Thus for teaching purposes one can suitably the relevant portions **Introduction to MATLAB for Engineers and Scientists** Sandeep Nagar,2017-11-27 Familiarize yourself with MATLAB using this concise practical tutorial that is focused on writing code to learn concepts Starting from the basics this book covers array based computing plotting and working with files numerical computation formalism and the primary concepts of approximations Introduction to MATLAB is useful for industry engineers researchers and students who are looking for open source solutions for numerical computation In this book you will learn by doing avoiding technical jargon which makes the concepts easy to learn First you ll see how to run basic calculations absorbing technical complexities incrementally as you progress toward advanced topics Throughout the language is kept simple to ensure that readers at all levels can grasp the concepts What You ll Learn Apply sample code to your engineering or science problems Work with MATLAB arrays functions and loops Use MATLAB s plotting functions for data visualization Solve numerical computing and computational engineering problems with a MATLAB case study Who This Book Is For Engineers scientists researchers and students who are new to MATLAB Some prior programming experience would be helpful but not required **MATLAB For Dummies** Jim Sizemore,John Paul Mueller,2014-11-10 Plot graphs solve equations and write code in a flash If you work in a STEM field chances are you ll be using MATLAB on a daily basis MATLAB is a popular and powerful computational tool and this book provides everything you need to start manipulating and plotting your data MATLAB has rapidly become the premier data tool and MATLAB For Dummies is a comprehensive guide to the fundamentals MATLAB For Dummies guides you through this complex computational language from installation to

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MATLAB, High-performance Numeric Computation and Visualization Software MathWorks, Inc,1993

Essential MATLAB for Scientists and Engineers Brian D. Hahn,2002 This completely revised new edition is based on the lastest version of MATLAB New chapters cover handle graphics graphical user interfaces GUIs structures and cell arrays and importing exporting data The chapter on numerical methods now includes a general GUI driver ODE solver Jacket

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Table of Contents Matlab Source Code For Manet

1. Understanding the eBook Matlab Source Code For Manet
    - The Rise of Digital Reading Matlab Source Code For Manet
    - Advantages of eBooks Over Traditional Books
2. Identifying Matlab Source Code For Manet
    - 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 Matlab Source Code For Manet
    - User-Friendly Interface
4. Exploring eBook Recommendations from Matlab Source Code For Manet
    - Personalized Recommendations

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