

WSN: Wireless Sensor Network
MTTF: Mean Time to Failure



Matlab Source Code For Wireless Sensor Networks

Vidushi Sharma, Anuradha Pughat



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Network Modeling, Simulation and Analysis in MATLAB Dac-Nhuong Le, Abhishek Kumar Pandey, Sairam Tadepalli, Pramod Singh Rathore, Jyotir Moy Chatterjee, 2019-08-13 The purpose of this book is first to study MATLAB programming concepts then the basic concepts of modeling and simulation analysis particularly focus on digital communication simulation The book will cover the topics practically to describe network routing simulation using MATLAB tool It will cover the dimensions like Wireless network and WSN simulation using MATLAB then depict the modeling and simulation of vehicles power network in detail along with considering different case studies Key features of the book include Discusses different basics and advanced methodology with their fundamental concepts of exploration and exploitation in NETWORK SIMULATION Elaborates practice questions and simulations in MATLAB Student friendly and Concise Useful for UG and PG level research scholar Aimed at Practical approach for network simulation with more programs with step by step comments Based on the Latest technologies coverage of wireless simulation and WSN concepts and implementations

Fundamentals of Sensor Network Programming S. Sitharama Iyengar, Nandan Parameshwaran, Vir V. Phoha, Narayanaswamy Balakrishnan, Chuka D. Okoye, 2011-03-29 This book provides the basics needed to develop sensor network software and supplements it with many case studies covering network applications It also examines how to develop onboard applications on individual sensors how to interconnect these sensors and how to form networks of sensors although the major aim of this book is to provide foundational principles of developing sensor networking software and critically examine sensor network applications

Energy-Efficient Wireless Sensor Networks Vidushi Sharma, Anuradha Pughat, 2017-07-28 The advances in low power electronic devices integrated with wireless communication capabilities are one of recent areas of research in the field of Wireless Sensor Networks WSNs One of the major challenges in WSNs is uniform and least energy dissipation while increasing the lifetime of the network This is the first book that introduces the energy efficient wireless sensor network techniques and protocols The text covers the theoretical as well as the practical requirements to conduct and trigger new experiments and project ideas The advanced techniques will help in industrial problem solving for energy hungry wireless sensor network applications

MATLAB Vasilios Katsikis, 2012-09-26 This excellent book represents the second part of three volumes regarding MATLAB based applications in almost every branch of science The present textbook contains a collection of 13 exceptional articles In particular the book consists of three sections the first one is devoted to electronic engineering and computer science the second is devoted to MATLAB SIMULINK as a tool for engineering applications the third one is about Telecommunication and communication systems and the last one discusses MATLAB toolboxes

Received Signal Strength Based Target Localization and Tracking Using Wireless Sensor Networks Satish R. Jondhale, R. Maheswar, Jaime Lloret, 2021-07-28 This book briefly summarizes the current state of the art technologies and solutions for location and tracking L T in wireless sensor networks WSN focusing on RSS based schemes

The authors offer broad and in depth coverage of essential topics including range based and range free localization strategies and signal path loss models In addition the book includes motion models and how state estimation techniques and advanced machine learning techniques can be utilized to design L T systems for a given problem using low cost measurement metric that is RSS This book also provides MATLAB examples to demonstrate fundamental algorithms for L T and provides online access to all MATLAB codes The book allows practicing engineers and graduate students to keep pace with contemporary research and new technologies in the L T domain **Signals and Systems Using MATLAB®** Aydin Akan,Luis F.

Chaparro,2024-03-22 Signals and Systems Using MATLAB Fourth Edition features a pedagogically rich and accessible approach to what can commonly be a mathematically dry subject Historical notes and common mistakes combined with applications in controls communications and signal processing help students understand and appreciate the usefulness of the techniques described in the text This new edition features more worked examples and a variety of new end of chapter problems suggestions for labs and more explanation of MATLAB code Introduces both continuous and discrete systems early and then studies each separately more in depth Contains an extensive set of worked examples and homework assignments with applications to controls communications and signal processing Begins with a review of all the background math necessary to study the subject Includes MATLAB problems and applications in every chapter Signals and Systems Using

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WIRELESS SENSOR NETWORK USING LABVIEW V VIKAS,NAIDU NEEHARIKA CHANDRA,SANJANA ANNU,KYATHI

TANNEDI, **Bulletin of Electrical Engineering and Informatics** Tole Sutikno,Moch Facta,Auzani Jidin,2014-06-01

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Hierarchical Topology Control for Wireless Networks Jiguo Yu, Cheng Xiuzhen, Jiang Honglu, Dongxiao Yu, 2018-02-05 First Published in 2018 This book covers the concepts of architecture and applications on wireless ad hoc networks and wireless sensor networks including topology control the clustering algorithm in topology control and virtual backbone construction algorithms focusing on connected dominating set construction including various transformations for dominating sets

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