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Fundamentals of Wireless Sensor Networks

Theory and Practice



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Siladitya Sen

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Wireless Sensor Networks Ibrahiem M. M. El Emary, S. Ramakrishnan, 2013-08-28 Although there are many books available on WSNs most are low level introductory books The few available for advanced readers fail to convey the breadth of knowledge required for those aiming to develop next generation solutions for WSNs Filling this void Wireless Sensor Networks From Theory to Applications supplies comprehensive coverage of WSNs In order to provide the wide ranging guidance required the book brings together the contributions of domain experts working in the various subfields of WSNs worldwide This edited volume examines recent advances in WSN technologies and considers the theoretical problems in WSN including issues with monitoring routing and power control It also details methodologies that can provide solutions to these problems The book s 25 chapters are divided into seven parts Data Collection Physical Layer and Interfacing Routing and Transport Protocols Energy Saving Approaches Mobile and Multimedia WSN Data Storage and Monitoring Applications The book examines applications of WSN across a range of fields including health military transportation and mining Addressing the main challenges in applying WSNs across all phases of our life it explains how WSNs can assist in community development Complete with a list of references at the end of each chapter this book is ideal for senior undergraduate and postgraduate students researchers scholars academics industrial researchers and practicing engineers working on WSNs The text assumes that readers possess a foundation in computer networks wireless communication and basic electronics

Ad Hoc And Sensor Networks: Theory And Applications Dharma Prakash Agrawal, Carlos De Morais Cordeiro, 2006-03-01 This book introduces a new explanatory cross layer model specifically designed to understand all aspects of ad hoc and sensor networking from design through performance issues to application requirements Future directions challenges and potential simulation projects are also discussed The topics included represent a significant portion of what is going on in academia and industry The vast materials provided will enable readers to not only understand and position themselves in this hot area but also to develop new capabilities enhance skills share expertise consolidate knowledge and design future solutions Thus the book is useful for researchers and engineers and anyone who seeks a deeper understanding of this growing field and wishes to pursue it as a future research topic Introductory Concepts of Wireless Sensor Network.

Theory and Applications Dac-Nhuong Le,Raghvenda Kumar, Jyotir Moy Chetterjee, 2018-01-02 Document from the year 2018 in the subject Instructor Plans Computing Data Processing IT Telecommunication course Wireless Sensor Network language English abstract This book Introductory Concepts of Wireless Sensor Network provides the details study of Wireless Sensor Network Introduction Application Middleware and basic concept of cloud computing with WSN This book also uses the Data Transmission concepts for secure data transmission over the wireless sensor network in distributed environment This book is useful for undergraduates postgraduates and research scholar students for their course work and

research projects in the field of engineering science and technology The text is organized into ten chapters Chapter 1 and

Chapter 2 provides Basic concept of wireless sensor network and their application in real life Chapter 3 and Chapter 4 Routing in Cluster Based Wireless Sensor Networks and Cluster Based Distribution Routing Protocol for wireless sensor network Chapter 5 and Chapter 6 includes MAC Protocol for WSN MANET and Routing Protocols in Wireless Sensor Network Chapter 7 and Chapter 8 give the brief introduction of Transport Control Protocols for WSN and different Middleware s for WSN Chapter 9 and Chapter 10 give brief Concept of Cloud Computing with WSN and Data Transmission over the WSN Finally this book includes un solved problems exercise and list of projects that are useful for both graduate and Wireless Sensor Networks Damodar Reddy Edla, Mahesh Chowdary Kongara, Amruta Lipare, Venkatanareshbabu Kuppili, Kannadasan K, 2020-11-23 Wireless Sensor Networks Evolutionary Algorithms for Optimizing Performance provides an integrative overview of bio inspired algorithms and their applications in the area of Wireless Sensor Networks WSN Along with the usage of the WSN the number of risks and challenges occurs while deploying any WSN Therefore to defeat these challenges some of the bio inspired algorithms are applied and discussed in this book Discussion includes a broad integrated perspective on various challenges and issues in WSN and also impact of bio inspired algorithms on the lifetime of the WSN It creates interdisciplinary theory concepts definitions models and findings involved in WSN and Bio inspired algorithms making it an essential guide and reference It includes various WSN examples making the book accessible to a broader interdisciplinary readership The book offers comprehensive coverage of the most essential topics including Evolutionary algorithms Swarm intelligence Hybrid algorithms Energy efficiency in WSN Load balancing of gateways Localization Clustering and routing Designing fitness functions according to the issues in WSN The book explains about practices of shuffled complex evolution algorithm shuffled frog leaping algorithm particle swarm optimization and dolphin swarm optimization to defeat various challenges in WSN The author elucidates how we must transform our thinking illuminating the benefits and opportunities offered by bio inspired approaches to innovation and learning in the area of WSN This book serves as a reference book for scientific investigators who shows an interest in evolutionary computation and swarm intelligence as well as issues and challenges in WSN Wireless Ad Hoc and Sensor Networks Xiangyang Li,2008 An overview of the various approaches and insights required to understand and optimize wireless ad hoc and sensor network performance Wireless Sensor Networks Siladitya Sen, 2023-11-30 Wireless sensor networks WSNs can be defined as self configured and infrastructure less wireless networks WSNs monitor physical or environmental conditions such as temperature sound vibration pressure motion or pollutants and cooperatively pass their data through the networks to the central location or sink where it can be observed and analysed The characteristics of these devices and the operating principles including those of MEMS micro electromechanics system which are the current trends in sensor devices fabrication have been discussed This book is about sensors and their applications in various fields like automobiles wireless sensor networks humidity sensing devices manufacturing and medical applications Each chapter contains necessary

schematic diagrams coupled with three categories of review questions. This book provides presentations of various types of sensors along with transducers that are used in today s current industrial scenario It also describes in detail the comprehensive state of present day technologies. The students of engineering will find this volume highly useful for their course work along with guidance for final year projects and seminar work This will also serve as a pointer to choose their future field of innovation and research work Ad Hoc And Sensor Networks: Theory And Applications (2nd Edition) Carlos De Morais Cordeiro, Dharma Prakash Agrawal, 2011-02-28 This book provides a comprehensive yet easy coverage of ad hoc and sensor networks and fills the gap of existing literature in this growing field It emphasizes that there is a major interdependence among various layers of the network protocol stack Contrary to wired or even one hop cellular networks the lack of a fixed infrastructure the inherent mobility the wireless channel and the underlying routing mechanism by ad hoc and sensor networks introduce a number of technological challenges that are difficult to address within the boundaries of a single protocol layer All existing textbooks on the subject often focus on a specific aspect of the technology and fail to provide critical insights on cross layer interdependencies To fully understand these intriguing networks one need to grasp specific solutions individually and also the many interdependencies and cross layer interactions Wireless Sensor Networks Shuang-Hua Yang, 2013-10-23 Wireless Sensor Networks presents the latest practical solutions to the design issues presented in wireless sensor network based systems Novel features of the text distributed throughout include workable solutions demonstration systems and case studies of the design and application of wireless sensor networks WSNs based on the first hand research and development experience of the author and the chapters on real applications building fire safety protection smart home automation and logistics resource management Case studies and applications illustrate the practical perspectives of sensor node design embedded software design routing algorithms sink node positioning co existence with other wireless systems data fusion security indoor location tracking integrating with radio frequency identification and Internet of things Wireless Sensor Networks brings together multiple strands of research in the design of WSNs mainly from software engineering electronic engineering and wireless communication perspectives into an over arching examination of the subject benefiting students field engineers system developers and IT professionals The contents have been well used as the teaching material of a course taught at postgraduate level in several universities making it suitable as an advanced text book and a reference book for final year undergraduate and postgraduate students **Rechargeable Sensor Networks:** Technology, Theory, And Application - Introducing Energy Harvesting To Sensor Networks Jiming Chen, Shibo He, Youxian Sun, 2014-01-28 The harvesting of energy from ambient energy sources to power electronic devices has been recognized as a promising solution to the issue of powering the ever growing number of mobile devices around us Key technologies in the rapidly growing field of energy harvesting focus on developing solutions to capture ambient energy surrounding the mobile devices and convert it into usable electrical energy for the purpose of recharging said devices

Achieving a sustainable network lifetime via battery aware designs brings forth a new frontier for energy optimization techniques These techniques had in their early stages resulted in the development of low power hardware designs Today they have evolved into power aware designs and even battery aware designs This book covers recent results in the field of rechargeable sensor networks including technologies and protocol designs to enable harvesting energy from alternative energy sources such as vibrations temperature variations wind solar and biochemical energy and passive human power

Wireless Sensor Networks and Energy Efficiency: Protocols, Routing and Management Zaman, Noor, Ragab, Khaled, Abdullah, Azween Bin, 2012-01-31 This book focuses on wireless sensor networks and their operation covering topics including routing energy efficiency and management

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