Building Wireless Sensor Networks: Theoretical and Practical Perspectives

By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy

Building Wireless Sensor Networks: Theoretical and Practical Perspectives
By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy

Building Wireless Sensor Networks: Theoretical and Practical Perspectives presents the state of the art of wireless sensor networks (WSNs) from fundamental concepts to cutting-edge technologies.

Focusing on WSN topics ideal for undergraduate and postgraduate curricula, this book:

- Provides essential knowledge of the contemporary theory and practice of wireless sensor networking
- Describes WSN architectures, protocols, and operating systems
- Details the routing and data aggregation algorithms
- Addresses WSN security and energy efficiency
- Includes sample programs for experimentation

The book offers overarching coverage of this exciting field, filling a critical gap in the existing literature.

Building Wireless Sensor Networks: Theoretical and Practical Perspectives

By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy

Building Wireless Sensor Networks: Theoretical and Practical Perspectives By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy

Building Wireless Sensor Networks: Theoretical and Practical Perspectives presents the state of the art of wireless sensor networks (WSNs) from fundamental concepts to cutting-edge technologies.

Focusing on WSN topics ideal for undergraduate and postgraduate curricula, this book:

- Provides essential knowledge of the contemporary theory and practice of wireless sensor networking
- Describes WSN architectures, protocols, and operating systems
- Details the routing and data aggregation algorithms
- Addresses WSN security and energy efficiency
- Includes sample programs for experimentation

The book offers overarching coverage of this exciting field, filling a critical gap in the existing literature.

Building Wireless Sensor Networks: Theoretical and Practical Perspectives By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy Bibliography

- Rank: #6980041 in Books
- Published on: 2015-11-24
- Original language: English
- Number of items: 1
- Dimensions: 9.20" h x .60" w x 6.20" l, .0 pounds
- Binding: Hardcover
- 278 pages

⬇ **Download** Building Wireless Sensor Networks: Theoretical and ...pdf

▤ **Read Online** Building Wireless Sensor Networks: Theoretical a ...pdf

Download and Read Free Online Building Wireless Sensor Networks: Theoretical and Practical Perspectives By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy

Editorial Review

Review

"… theoretical and practical aspects of WSNs are covered. Several communication standards are explained. Various information gathering techniques are discussed. Energy management in WSNs is treated in detail. Prevalent security mechanisms are described. On the practical side operating system and programming related matters for WSNs are presented."
?Dr C Mandal, Affiliation: Dept of CSE, IIT Kharagpur

"This book is a handy guide for anyone to learn about the state of the art in wireless sensor networks. The authors are thorough in detail about the ideas and schemes used and also other new ones that have been proposed. The book is divided into chapters as sections of WSNs, and they flow well into each other, culminating in the last chapter where the authors show how the readers can design and test their WSNs in the stimulators practically and implement some of the ideas discussed earlier in the book."
?*IEE Wireless Communications*, April 2016

About the Author

Nandini Mukherjee has been a faculty member in the Department of Computer Science and Engineering, Jadavpur University, Kolkata, India since 1992. Currently, she is a professor in the Department. She has served as director of the School of Mobile Computing and Communication, Jadavpur University for almost six years. Before joining Jadavpur University as a faculty member, Professor Mukherjee served in the industry for nearly three years. Professor Mukherjee received a Commonwealth Scholarship for her doctoral study in the UK, and she completed her Ph.D in computer science from the University of Manchester, UK in 1999. She is an active researcher in her chosen field. Her research interests are in areas of high performance parallel computing, grid and cloud computing, and wireless sensor networks. She is a senior member of the IEEE and IEEE Computer Society.

Sarmistha Neogy is an associate professor in the Department of Computer Science and Engineering, Jadavpur University, Kolkata, India. She received her Ph.D in engineering and master's and bachelor's in computer science and engineering from Jadavpur University. Dr. Neogy's research interests are in areas of fault tolerance in distributed systems, reliability and security in wireless and mobile systems, and wireless sensor networks. She is a senior member of the IEEE and IEEE Computer Society. She has a number of publications in international journals and proceedings of international conferences.

Sarbani Roy is an assistant professor at Jadavpur University, Kolkata, India. She was previously a Fulbright Fellow at the University of North Carolina at Charlotte, USA, and a lecturer at St. Thomas's College of Engineering and Technology, Kolkata, India. She holds a B.Sc (Hons) in computer science, M.Sc in computer science, and M.Tech in computer science and engineering from the University of Calcutta, India,

and a Ph.D in engineering from Jadavpur University. Dr. Roy's work has been published in international peer-reviewed journals and conference proceedings. Her research interests include distributed computing, wireless sensor networks, grid and cloud computing, and social network analysis.

Users Review

From reader reviews:

Jennifer Perez:

Playing with family in the park, coming to see the water world or hanging out with pals is thing that usually you have done when you have spare time, after that why you don't try issue that really opposite from that. One activity that make you not experiencing tired but still relaxing, trilling like on roller coaster you already been ride on and with addition details. Even you love Building Wireless Sensor Networks: Theoretical and Practical Perspectives, it is possible to enjoy both. It is great combination right, you still want to miss it? What kind of hang type is it? Oh occur its mind hangout fellas. What? Still don't have it, oh come on its referred to as reading friends.

Walter Miller:

You are able to spend your free time to read this book this reserve. This Building Wireless Sensor Networks: Theoretical and Practical Perspectives is simple to develop you can read it in the playground, in the beach, train and soon. If you did not have much space to bring the printed book, you can buy often the e-book. It is make you much easier to read it. You can save often the book in your smart phone. So there are a lot of benefits that you will get when you buy this book.

Edna Kissel:

Beside this kind of Building Wireless Sensor Networks: Theoretical and Practical Perspectives in your phone, it may give you a way to get nearer to the new knowledge or facts. The information and the knowledge you can got here is fresh through the oven so don't always be worry if you feel like an aged people live in narrow small town. It is good thing to have Building Wireless Sensor Networks: Theoretical and Practical Perspectives because this book offers for your requirements readable information. Do you occasionally have book but you rarely get what it's all about. Oh come on, that wil happen if you have this with your hand. The Enjoyable agreement here cannot be questionable, similar to treasuring beautiful island. So do you still want to miss the idea? Find this book and read it from currently!

Robert Brown:

You can obtain this Building Wireless Sensor Networks: Theoretical and Practical Perspectives by go to the bookstore or Mall. Just simply viewing or reviewing it may to be your solve trouble if you get difficulties to your knowledge. Kinds of this guide are various. Not only by simply written or printed but can you enjoy this book simply by e-book. In the modern era just like now, you just looking by your local mobile phone and searching what your problem. Right now, choose your personal ways to get more information about your guide. It is most important to arrange yourself to make your knowledge are still upgrade. Let's try to choose

suitable ways for you.

Download and Read Online Building Wireless Sensor Networks: Theoretical and Practical Perspectives By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy #CSETBPRNOWD

Read Building Wireless Sensor Networks: Theoretical and Practical Perspectives By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy for online ebook

Building Wireless Sensor Networks: Theoretical and Practical Perspectives By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Building Wireless Sensor Networks: Theoretical and Practical Perspectives By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy books to read online.

Online Building Wireless Sensor Networks: Theoretical and Practical Perspectives By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy ebook PDF download

Building Wireless Sensor Networks: Theoretical and Practical Perspectives By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy Doc

Building Wireless Sensor Networks: Theoretical and Practical Perspectives By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy Mobipocket

Building Wireless Sensor Networks: Theoretical and Practical Perspectives By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy EPub

CSETBPRNOWD: Building Wireless Sensor Networks: Theoretical and Practical Perspectives By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy