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Signals And Communication
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Recent Development In Wireless Sensor And Ad Hoc Networks Signals And Communication Technology

The aim of this book is to present few important issues of WSNs, from the application, design and technology points of view. The book highlights power efficient design issues related to wireless sensor

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networks, the existing WSN applications, and discusses the research efforts being undertaken in this field which put the reader in good pace to be able to understand more advanced research and make

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***a contribution in this field for
themselves. It is believed that
this book serves as a
comprehensive reference for
graduate and undergraduate
senior students who seek to
learn latest development in***

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wireless sensor networks.
Wireless Sensor
Networks Current Status and
Future Trends CRC Press
With the advances in the
technology of
microelectromechanical

system (MEMS), developments in wireless communications and wireless sensor networks (WSNs) have also emerged. WSNs have become the one of the most interesting areas of research in the past few years.

A WSN is composed of a number of wireless sensor nodes which form a sensor field and a sink. These large numbers of nodes, having the abilities to sense their surroundings, perform limited

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***computation and communicate
wirelessly form the WSNs.***

Technology
***WSNs can be found in a
variety of both military and
civilian applications
worldwide, examples include
detecting enemy intrusion on***

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the battlefield, object tracking, habitat monitoring, patient monitoring and fire detection. Sensor networks are emerging as an attractive technology with great promise for the future. However, challenges

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***remain to be addressed in
issues relating to coverage
and deployment, scalability,
quality-of-service, size,
computational power, energy
efficiency and security.***

Wireless Sensor Networks -

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***Technology and Applications
present important issues of
WSNs, from the application,
design and technology points
of view. The book serves as a
comprehensive valuable tool
for senior graduate students***

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***and scholars who seek to
learn latest development in
wireless sensor networks.***

***Sensor Networks and
Configuration
Development and
Implementation of Wireless***

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***Sensor Network for the
Electricity Substation
Monitoring
From Sensor Deployment to
Data Gathering
Technology, Protocols, and
Applications***

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Tremendous technological advances have been made in the development of low-cost sensor devices equipped with wireless network interfaces. The area of wireless sensor networks is rapidly growing as new technologies emerge and new applications are developed.

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This book introduces networked embedded systems, smart sensors, and wireless sensor networks, with a strong focus on architecture, applications, networks and distributed systems support for wireless sensor networks. The issues and challenges for the

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development of wireless sensor networks not only encompass a broad spectrum of research topics but also

give rise to the evolution of a new breed of multi-disciplinary wireless network applications. Such sensor networks may be used for applications

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spanning several domains including military, medical, industrial, and home networks. Wireless Sensor Network Designs: Covers the newest sensor technology, design issues, problems and solutions Explains a broad range of topics such as networked embedded

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systems, smart sensor networks, power aware sensor networks, routing, clustering, security, operating systems, and networks support Includes a comprehensive bibliography Provides a descriptive tutorial suitable for graduate students and newcomers to

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this exciting field of telecoms
Security of Wireless Sensor Networks:
Current Status and Key Issues.

Information processing in sensor networks is a rapidly emerging area of computer science and electrical engineering research. This text

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introduces the fundamental issues and constraints concerning various aspects of sensor networks, using examples

from current research and implementation efforts.

Smart Wireless Sensor Networks
Fundamentals, Standards, Platforms,

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and Applications
A Networking Perspective
Networking Wireless Sensors

Wireless sensor networks
promise an unprecedented
fine-grained interface
between the virtual and

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physical worlds. They
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are one of the most
rapidly developing
information
technologies, with
applications in a wide
range of fields

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including industrial
process control,
security and
surveillance,
environmental sensing,
and structural health
monitoring. Originally

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published in 2005, this
book provides a detailed
and organized survey of
the field. It shows how
the core challenges of
energy efficiency,
robustness, and autonomy

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are addressed in these
systems by networking
techniques across
multiple layers. The
topics covered include
network deployment,
localization, time

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synchronization,
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wireless radio
characteristics, medium-
access, topology
control, routing, data-
centric techniques, and
transport protocols.

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Ideal for researchers
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and designers seeking to
create algorithms and
protocols and engineers
implementing integrated
solutions, it also
contains many exercises

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and can be used by
graduate students taking
courses in networks.

Learn the fundamental
concepts, major
challenges, and
effective solutions in

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wireless sensor
networking This book
provides a comprehensive
and systematic
introduction to the
fundamental concepts,
major challenges, and

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effective solutions in
wireless sensor
networking (WSN) .

Distinguished from other
books, it focuses on the
networking aspects of
WSNs and covers the most

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important networking
issues, including
network architecture
design, medium access
control, routing and
data dissemination, node
clustering, node

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localization, query
processing, data
aggregation, transport
and quality of service,
time synchronization,
network security, and
sensor network

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standards. With
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contributions from
internationally renowned
researchers, Wireless
Sensor Networks expertly
strikes a balance
between fundamental

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concepts and state-of-
the-art technologies,
providing readers with
unprecedented insights
into WSNs from a
networking perspective.
It is essential reading

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for a broad audience,
including academic
researchers, research
engineers, and
practitioners in
industry. It is also
suitable as a textbook

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or supplementary reading
for electrical
engineering, computer
engineering, and
computer science courses
at the graduate level.
Wireless Sensor Network

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(WSN) consists of
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numerous physically
distributed autonomous
devices used for sensing
and monitoring the
physical and/or
environmental

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conditions. A WSN uses a gateway that provides wireless connectivity to the wired world as well as distributed networks. There are many open problems related to Ad-

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Hoc networks and its
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applications. Looking at
the expansion of the
cellular infrastructure,
Ad-Hoc network may be
acting as the basis of
the 4th generation

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wireless technology with
the new paradigm of
'anytime, anywhere
communications'. To
realize this, the real
challenge would be the
security, authorization

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and management issues of
the large scale WSNs.

This book is an edited
volume in the broad area
of WSNs. The book covers
various chapters like
Multi-Channel Wireless

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Sensor Networks, its
Coverage, Connectivity
as well as Deployment.

It covers comparison of
various communication
protocols and algorithms
such as MANNET, ODMRP

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and ADMR Protocols for
Ad hoc Multicasting,
Location Based
Coordinated Routing
Protocol and other Token
based group local mutual
exclusion Algorithms.

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The book also covers a chapter on Extended Ad hoc On-Demand Distance Vector (EAODV) routing protocol based on Distributed Minimum Transmission Multicast

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Routing (DMTMR). One
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chapter is dedicated to
OCDMA and its future
application and another
chapter covers
development of Home
Automation System using

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S.W.N.

Handbook of Research on
Advanced Wireless Sensor
Network Applications,
Protocols, and
Architectures
Recent Development in

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Technology and
Applications
Challenges and
Opportunities of
Connected k -Covered

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Collecting and processing data is a necessary aspect of living in a technologically advanced society. Whether it's monitoring events, controlling different variables, or using decision-making applications,

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**it is important to have a
system that is both
inexpensive and capable of
coping with high amounts of
data. Technological
Breakthroughs in Modern
Wireless Sensor Applications
brings together new ways to**

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**process and monitor data, and
to put it to work in everything
from intelligent
transportation systems to
healthcare to multimedia
applications. This book is an
essential reference source for
research and development**

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**engineers, graduate students,
academics, and researchers
interested in intelligent
engineering, internetworking,
routing, and network planning
algorithms.**

**Because they provide
practical machine-to-machine**

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communication at a very low cost, the popularity of wireless sensor networks is expected to skyrocket in the next few years, duplicating the recent explosion of wireless LANs. Wireless Sensor Networks:

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Architectures and Protocols
describes how to build these
networks, from the layers of
the

**The recent development of
communication and sensor
technology results in the
growth of a new attractive and**

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challenging area - wireless sensor networks (WSNs). A wireless sensor network which consists of a large number of sensor nodes is deployed in environmental fields to serve various applications. Facilitated with the ability of

wireless communication and intelligent computation, these nodes become smart sensors which do not only perceive ambient physical parameters but also be able to process information, cooperate with each other and self-organize

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into the network. These new features assist the sensor nodes as well as the network to operate more efficiently in terms of both data acquisition and energy consumption. Special purposes of the applications require design

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**and operation of WSNs
different from conventional
networks such as the internet.
The network design must take
into account of the objectives
of specific applications. The
nature of deployed
environment must be**

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**considered. The limited of
sensor nodes resources such
as memory, computational
ability, communication
bandwidth and energy source
are the challenges in network
design. A smart wireless
sensor network must be able**

to deal with these constraints as well as to guarantee the connectivity, coverage, reliability and security of network's operation for a maximized lifetime. This book discusses various aspects of designing such smart wireless

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**sensor networks. Main topics
includes: design
methodologies, network
protocols and algorithms,
quality of service
management, coverage
optimization, time
synchronization and security**

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**techniques for sensor
networks.**

**Body Sensor Networks
Technological Breakthroughs
in Modern Wireless Sensor
Applications
Wireless Sensor Networks
Current Status and Future**

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Trends

A one-stop resource for the use of algorithms and protocols in wireless sensor networks From an established international researcher in the field, this edited volume provides readers with

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comprehensive coverage of the fundamental algorithms and protocols for wireless sensor networks. It identifies the research that needs to be conducted on a number of levels to design and assess the deployment of wireless

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sensor networks, and provides an in-depth analysis of the

development of the next generation of heterogeneous wireless sensor networks. Divided into nineteen succinct chapters, the book covers: mobility management and resource

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allocation algorithms;
communication models; energy and
power consumption algorithms;
performance modeling and
simulation; authentication and
reputation mechanisms; algorithms
for wireless sensor and mesh

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networks; and algorithm methods for pervasive and ubiquitous computing; among other topics. Complete with a set of challenging exercises, this book is a valuable resource for electrical engineers, computer engineers, network

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engineers, and computer science
specialists. Useful for instructors
and students alike, Algorithms and
Protocols for Wireless Sensor
Networks is an ideal textbook for
advanced undergraduate and
graduate courses in computer

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science, electrical engineering, and
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network engineering.
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“The decomposition of the
difficulties to be resolved, or the
objects to be known, should be
pushed up to the simplest elements
... Such elements are seized

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directly and completely by the
intuition. ” Ren é Descartes,
Discours de la m é thode (1637)

Wireless sensor networks have
received significant attention
because of their - portant role and
many conveniences in our lives.

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Indeed, the recent and fast -
vances in inexpensive sensor
technology and wireless
communications have made the
design and development of large-
scale wireless sensor networks cost-
effective and appealing to a wide

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range of mission-critical situations, including civilian, natural, industrial, and military applications, such as health and environmental monitoring, seism monitoring, industrial process automation, and battlefields s- veillance,

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respectively. A wireless sensor network consists of a large number of - ny, low-powered devices, called

sensors, which are randomly or deterministically deployed in a field of interest while collaborating and coordinating for the successful

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accomplishment of their mission. These sensors suffer from very scarce resources and capabilities, such as bandwidth, storage, CPU, battery power (or - energy), sensing, and communication, to name a few, with energy being the most critical

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one. The major challenge in the design process of this type of network is mainly due to the limited capabilities of the sensors, and particularly, their energy, which makes them unreliable.

The last decade has witnessed a

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rapid surge of interest in new
sensing and monitoring devices for
wellbeing and healthcare. One key
development in this area is

wireless, wearable and implantable
in vivo monitoring and intervention.
A myriad of platforms are now

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available from both academic institutions and commercial organisations. They permit the management of patients with both acute and chronic symptoms, including diabetes, cardiovascular diseases, treatment of epilepsy and

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other debilitating neurological disorders. Despite extensive developments in sensing technologies, there are significant research issues related to system integration, sensor miniaturisation, low-power sensor interface,

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wireless telemetry and signal
processing. In the 2nd edition of
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this popular and authoritative
reference on Body Sensor
Networks (BSN), major topics
related to the latest technological
developments and potential clinical

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applications are discussed, with
contents covering. Biosensor
Design, Interfacing and
Nanotechnology Wireless
Communication and Network
Topologies Communication
Protocols and Standards Energy

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Harvesting and Power Delivery
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Ultra-low Power Bio-inspired
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Processing Multi-sensor Fusion and
Context Aware Sensing Autonomic
Sensing Wearable, Ingestible
Sensor Integration and Exemplar
Applications System Integration

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and Wireless Sensor Microsystems
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The book also provides a
comprehensive review of the
current wireless sensor
development platforms and a step-
by-step guide to developing your
own BSN applications through the

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use of the BSN development kit.

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Technology
Monitoring Technologies in Mission-
Critical Environment by Using

Wireless Sensor Networks

Security of Wireless Sensor

Networks: Current Status and Key

Issues

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Wireless Sensor Network Designs

**The current world of
technology faces massive
advancements that influence
different sectors such as
transport, health care system,
and education, amongst**

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**others. The telecommunication
and information industry has
become significant over time
and has experienced
considerable development.
This trend is likely to extend
into the future, both in terms**

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of hardware and software. The industry plans to make modern advancements in the next five years to change their current modes of operation. Some of the significant changes that are forecast for the industry

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**include technological advances
such as 5G, Artificial
Intelligence (AI), Machine
Learning (ML), IoT, wireless
sensor networks, and cross-
industry alliances. 5G mobile
connectivity is expected to**

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**bring advanced technical
improvements helping
employment as well as growth
in GDP. In the fusion of these
technologies, the potential of
IoT and Wireless Sensor
Networks (WSN) would be**

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**witnessed through various
applications such as connected
consumer, home monitoring
system, predictive
maintenance, factory
monitoring, and so on. A
Wireless Sensor Network**

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(WSN) is a term used for a network of devices that can gather information and then communicate it through any wireless link. The data collected is then transferred using different nodes and

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multiple gateways. With the evolution of technology, some new criteria have been introduced to check and balance the environmental conditions for reliable and fast response operations for a

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**quick response and service
under different scenarios and
situations. There has been an
increased use of smart
wireless sensor objects in the
current world by various
organizations. The growth of**

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**the Internet of Things (IoT),
industrial IoT, and wireless
sensor networks have shaped
different technologies and
enables faster, reliable, and
sufficient production of goods
and services. Although there**

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**are limitations and challenges
such as storage capacity,
processing power,
communication range, and
battery life, WSN significantly
affects IoT technology
development. Learning about**

the standards and specifications of WSNs is vital to understanding their general functionality and how they are in close interaction with the Internet of Things, with many massive billions of device

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connectivity. Future developments should focus on building a self-adaptive spectrum management middleware for the wireless sensor networks. The telecom industry will continue to face

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regulatory challenges it faces currently. Various new regulations are likely to come up soon, and these will also have financial implications for the companies. The need to ensure consumer privacy is a

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**critical issue that will be of
prime concern to the telecoms
in the next few years. Various
aspects, such as the standards
and the architectures, need to
be considered to ensure the
security and operational**

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consistency of these wireless sensor networks; therefore, industry players should keep up with the changing trends and adapt accordingly. In this book there are twelve chapters which cover wireless

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networking sensors evolution
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and technologies
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advancement. We are very
pleased that the technology,
academic, and industry
communities are discussing
this important and fast

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**growing industry and we are
certain that the content of this
book will shed some light on
this subject. The chapters
presented in this book discuss
technologies, design,
implementation and**

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**applications of various short
and long range wireless
sensors networking. The
challenges and issues faced in
providing applications and
services to meet user
experiences ubiquitously and**

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**securely are presented.
Provides unique coverage of
wireless sensor system
applications in space,
underwater, underground, and
extreme industrial
environments in one volume**

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**This book covers the
challenging aspects of wireless
sensor systems and the
problems and conditions
encountered when applying
them in outer space, under the
water, below the ground, and**

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in extreme industrial environments. It explores the unique aspects of designs and solutions that address those problems and challenges, and illuminates the connections, similarities, and differences

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between the challenges and solutions in those various environments. The creation of Wireless Sensor Systems for Extreme Environments is a response to the spread of wireless sensor technology

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**into fields of health, safety,
manufacturing, space,
environmental, smart cities,
advanced robotics,
surveillance, and agriculture.
It is the first of its kind to
present, in a single reference,**

the unique aspects of wireless sensor system design, development, and deployment in such extreme environments—and to explore the similarities and possible synergies between them. The

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**application of wireless sensor
systems in these varied
environments has been
lagging dramatically behind
their application in more
conventional environments,
making this an especially**

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**relevant book for investigators
and practitioners in all of
these areas. Wireless Sensor
Systems for Extreme
Environments is presented in
five parts that cover: Wireless
Sensor Systems for Extreme**

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**Environments—Generic
Solutions Space WSS Solutions
and Applications Underwater
and Submerged WSS Solutions
Underground and Confined
Environments WSS Solutions
Industrial and Other WSS**

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**Solutions This book is a
welcome guide for
researchers, post-graduate
students, engineers and
scientists who design and
build operational and
environmental control**

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**systems, emergency response
systems, and situational
awareness systems for
unconventional environments.
This book addresses the issues
of the rapidly changing field of
wireless wearable and**

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**implantable sensors. It also
discusses the latest
technological developments
and clinical applications of
body-sensor networks (BSN).
BSN is a new area of research
and the last decade has seen a**

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rapid surge of interest. The book also provides a review of current wireless sensor development platforms and a guide to developing your own BSN applications.

Wireless Sensor Networks

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(WSN)
**Wireless Sensor Systems for
Extreme Environments**

Theory and Practice
**Algorithms and Protocols for
Wireless Sensor Networks**

In recent times wireless sensors and

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sensor networks have become a great interest to research, scientific and technological community. Though the sensor networks have been in place for more than a few decades now, the wireless domain has opened up a whole new application spaces of sensors. Wireless sensors and sensor

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networks are different from traditional wireless networks as well computer networks and therefore pose more challenges to solve such as limited energy, restricted life time, etc. This book intends to illustrate and to collect recent advances in wireless sensors and sensor networks, not as an

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encyclopedia but as clever support for scientists, students and researchers in order to stimulate exchange and discussions for further developments. This book explores various challenging problems and applications areas of wireless sensor networks (WSNs), and identifies the current issues and future

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research challenges. Discussing the latest developments and advances, it covers all aspects of in WSNs, from architecture to protocols design, and from algorithm development to synchronization issues. As such the book is an essential reference resource for undergraduate and

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*postgraduate students as well as
scholars and academics working in the
field.*

*This book incorporates a selection of
research and development papers. Its
scope is on history and background,
underlying design methodology,
application domains and recent*

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developments. The readers will be able to understand the underlying technology, philosophy, concepts, ideas, and principles, with regard to broader areas of sensor network. Aspects of sensor network and experimental results have been presented in proper order.

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*The implementation of
wireless sensor networks
has wide-ranging
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settings. However, certain limitations with these technologies must be addressed in order to effectively utilize them. The Handbook of Research on Advanced Wireless

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*Sensor Network
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*of wireless sensors.
Examining the advantages
and challenges presented
by the application of
these networks in various
areas, this book is
ideally designed for*

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presents the latest
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based systems. Novel
features of the text,
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systems and case studies*

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*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*

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*applications: building
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management. Case studies
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*fusion; · security; ·
indoor location tracking;
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**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 overarching examination of the

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provides a comprehensive

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*view to this rapidly
evolving field, including
its many novel*

*applications, ranging from
protecting civil
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*monitoring. Using detailed
examples and
illustrations, this book
provides an inside track
on the current state of
the technology. The book
is divided into three*

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*parts. In Part I, several
node architectures,
applications and operating
systems are discussed. In
Part II, the basic
architectural frameworks,
including the key building*

*blocks required for
constructing large-scale,
energy-efficient sensor
networks are presented. In
Part III, the challenges
and approaches pertaining
to local and global*

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*management strategies are
presented - this includes
topics on power
management, sensor node
localization, time
synchronization, and
security. At the end of*

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each chapter, the authors provide practical exercises to help students strengthen their grip on the subject. There are more than 200 exercises altogether. Key Features:

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*Offers a comprehensive
introduction to the
theoretical and practical
concepts pertaining to
wireless sensor networks
Explains the constraints
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promising solutions*

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sensor network*

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latest research results in
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*together to build complex
sensing systems for a
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ls) This book serves as an
introductory text to the
field of wireless sensor
networks at both graduate
and advanced undergraduate
level, but it will also*

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appeal to researchers and practitioners wishing to learn about sensor network technologies and their application areas, including environmental monitoring, protection of

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*books available on WSNs,
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readers fail to convey the
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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

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the theoretical problems in
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methodologies that can*

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engineers working on WSNs.*

*The text assumes that
readers possess a foundation
in computer networks,
wireless communication, and
basic electronics.*

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introduction that covers all
the major technology,
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applications and promising
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straightforward and
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book makes even complex concepts and processes easy to follow and understand. In addition, it offers several features that help readers grasp the material and then apply their knowledge in

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*Examples illustrate how
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Wireless sensor networks (WSNs) utilize fast, cheap, and effective applications to imitate the human intelligence capability of sensing on a wider distributed scale. But

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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