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courses in
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in upper-level
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expands on the success
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updating on
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networks and responding

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systems, character
coding, basic knowledge
in digital design, and
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on to discuss
information
representation in
computing; Boolean
algebra and logic gates;
sequential logic;
input/output; and CPU

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performance. The author
also covers ARM
architecture, ARM
instructions and ARM
assembly language which
is used in a variety of
devices such as cell

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phones, digital TV,
automobiles, routers,
and switches. The book
contains a set of
laboratory experiments
related to digital
design using Logisim

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software; in addition,
each chapter features
objectives, summaries,
key terms, review
questions and problems.
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number system and
coding, basic knowledge
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hoc networks. The principles of wireless localization techniques using time-of-arrival and received-signal-strength of the wireless signal used in military and commercial applications in smart devices operating in urban, indoor

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projects to challenge students in
practically important simulation
problems**

**Ethnomusicologists face complex
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**studies in the field do not fully
prepare them. The essays in
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Kathleen Wiens, provide a
reflection on the challenges,**

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opportunities, and often overlooked importance of public ethnomusicology. These essays capture years of experience of fourteen scholars who have simultaneously navigated the worlds within and outside of

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academia, sharing valuable lessons often missing in ethnomusicological training. Power and organizational structures, marketing, content management and production are among the themes explored as an

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extension and re-evaluation of what constitutes the field of/in ethnomusicology. Many of the authors in this volume share how to successfully acquire funding for a project, while others illustrate how to navigate non-

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academic workplaces, and yet others share perspectives on reconciling business-like mindsets with humanistic goals. Grounded in case studies in multiple institutional and geographical locations, authors advocate for the

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**importance and relevance of
ethnomusicology in our society at
large.**

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year courses in communications
networks in upper-level**

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undergraduate programs. The second half of the book can be used in more advanced courses. As pre-requisites the book assumes a general knowledge of computer systems and programming, and elementary

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Personal Wireless

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Mexico, the United States, and
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Convergence Towards Exascale

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*and intuitive
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Mir establishes a solid
foundation in basic
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and games)

*This book describes,
analyzes, and recommends
traffic engineering (TE)
and quality of service
(QoS) optimization
methods for integrated*

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*voice/data dynamic
routing networks. These
functions control a
network's response to
traffic demands and
other stimuli, such as
link failures or node*

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*failures. TE and QoS
optimization is
concerned with
measurement, modeling,
characterization, and
control of network
traffic, and the*

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*application of
techniques to achieve
specific performance
objectives. The scope of
the analysis and
recommendations include
dimensioning, call/flow*

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*and connection routing,
QoS resource management,
routing table
management, dynamic
transport routing, and
operational
requirements. Case*

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(TIC.EC)
Analysis of Computer and*
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book. This is the standard textbook for courses on probability and statistics, not substantially updated. While helping students to develop their problem-solving skills, the author

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examples. In this edition, the
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have been updated and substantially enhanced and new problems have been added.

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and random processes that
merges theory with practice.
Based on the author's belief
that only "hands-on"
experience with the material
can promote intuitive

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understanding, the approach is to motivate the need for theory using MATLAB examples, followed by theory and analysis, and finally descriptions of "real-world" examples to acquaint

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the reader with a wide variety of applications. The latter is intended to answer the usual question "Why do we have to study this?"

Other salient features are:

*heavy reliance on computer

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and student exercises *the
incorporation of MATLAB
programs and code
segments *discussion of
discrete random variables
followed by continuous

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random variables to
minimize confusion

*summary sections at the
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*in-line equation

explanations *warnings on
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book. About the Author
Steven M. Kay is a Professor
of Electrical Engineering at
the University of Rhode
Island and a leading expert
in signal processing. He has
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Irrespective of whether we use economic or societal metrics, the Internet is one of the most important technical infrastructures in existence today. It will be a catalyst for much of our

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innovation and prosperity in the future. A competitive Europe will require Internet connectivity and services beyond the capabilities offered by current technologies. Future

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economic issues; security
and trust; and experiments
and experimental design.
Future Internet Areas:
networks, services, and
content; and applications.
A Comprehensive and

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First EAI International
Summit, Smart City 360°,
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Republic, September 2007

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compendium of
authoritative, research-
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**Complex Social Networks is
a newly emerging (hot)
topic with applications in a
variety of domains, such as**

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engineering networks,
social networks, and
biological networks. In the
last decade, there has been
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world networks, a theme that is becoming pervasive in many disciplines, ranging from mathematics and computer science to the social and biological sciences. Optimization of

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**complex communication
networks requires a deep
understanding of the
interplay between the
dynamics of the physical
network and the
information dynamics**

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within the network.

Although there are a few books addressing social networks or complex networks, none of them has specially focused on the optimization perspective of

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networks with several new
mathematical approaches
and optimization
techniques to design and**

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networks. A wide range of
applications and
optimization problems
derived from research
areas such as cellular and
molecular chemistry,**

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physiology, epidemiology,
and ecology.**

**Even as newer cellular
technologies and standards
emerge, many of the
fundamental principles and**

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the components of the cellular network remain the same. Presenting a simple yet comprehensive view of cellular communications technologies, Cellular Communications provides

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the core network. This self-
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represents a
comprehensive survey of
the fundamentals of
cellular communications
and the landscape of
commercially deployed 2G**

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and 3G technologies and provides a glimpse of emerging 4G technologies. In this book, the authors describe the fundamental concepts and practical aspects of wireless sensor

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examples and illustrations,
this book provides an
inside track on the current
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three parts. In Part I, several node architectures, applications and operating systems are discussed. In Part II, the basic architectural frameworks, including the key building

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**blocks required for
constructing large-scale,
energy-efficient sensor
networks are presented. In
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approaches pertaining to
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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 each

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**chapter, the authors
provide practical exercises
to help students strengthen
their grip on the subject.
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exercises altogether. Key
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sensing systems for a
variety of application
scenarios Includes an
accompanying website
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exercises (<http://www.wiley>**

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.com/go/dargie_fundamentals) This book serves as an introductory text to the field of wireless sensor networks at both graduate and advanced undergraduate level, but it

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**will also appeal to
researchers and
practitioners wishing to
learn about sensor network
technologies and their
application areas, including
environmental monitoring,**

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challenges faced by
integrating such
technologies and in
achieving performance and
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practical examples of the needs for a cross-domain convergence. All the chapters in this book pave the road to new generation of technologies, support their development and, in

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*and Toronto, ON, Canada, in
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carefully reviewed papers
include eight conferences:
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*beyond Mobility of Goods
(SustainableMoG 2015), the
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which strengthens research
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*urban mobility (SUMS),
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across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's

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health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public

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***transportation,
interpersonal violence, and
decaying neighborhoods
also contribute to health
inequities, as well as the
historic and ongoing
interplay of structures,***

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policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies

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***that can shape health in
powerful ways.***

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