

Digital Communications By Michael Rice Solution Manual

Krakauer's page-turning bestseller explores a famed missing person mystery while unraveling the larger riddles it holds: the profound pull of the American wilderness on our imagination; the allure of high-risk activities to young men of a certain cast of mind; the complex, charged bond between fathers and sons. "Terrifying... Eloquent... A heart-rending drama of human yearning." —New York Times In April 1992 a young man from a well-to-do family hitchhiked to Alaska and walked alone into the wilderness north of Mt. McKinley. He had given \$25,000 in savings to charity, abandoned his car and most of his possessions, burned all the cash in his wallet, and invented a new life for himself. Four months later, his decomposed body was found by a moose hunter. How Christopher Johnson McCandless came to die is the unforgettable story of *Into the Wild*. Immediately after graduating from college in 1991, McCandless had roamed through the West and Southwest on a vision quest like those made by his heroes Jack London and John Muir. In the Mojave Desert he abandoned his car, stripped it of its license plates, and burned all of his cash. He would give himself a new name, Alexander Supertramp, and, unencumbered by money and belongings, he would be free to wallow in the raw, unfiltered experiences that nature presented. Craving a blank spot on the map, McCandless simply threw the maps away. Leaving behind his desperate parents and sister, he vanished into the wild. Jon Krakauer constructs a clarifying prism through which he reassembles the disquieting facts of McCandless's short life. Admitting an interest that borders on obsession, he searches for the clues to the drives and desires that propelled McCandless. When McCandless's

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innocent mistakes turn out to be irreversible and fatal, he becomes the stuff of tabloid headlines and is dismissed for his naiveté, pretensions, and hubris. He is said to have had a death wish but wanting to die is a very different thing from being compelled to look over the edge. Krakauer brings McCandless's uncompromising pilgrimage out of the shadows, and the peril, adversity, and renunciation sought by this enigmatic young man are illuminated with a rare understanding--and not an ounce of sentimentality. Mesmerizing, heartbreaking, *Into the Wild* is a tour de force. The power and luminosity of Jon Krakauer's storytelling blaze through every page.

A beautiful scholar studies a tough-as-nails cop--what can go wrong? Tough-as-nails police lieutenant Alex Cruz is all business and all brawn. Cops and criminals alike tremble before him, which is just the way he likes it. He has to be harder than the hardest criminals to root the bad guys out of his city. Then his boss forces him to work with a scholar who is studying dominance in law enforcement. Alex doesn't have time to babysit a pencil-dick geek writing a useless dissertation. He's busy doing real police work. Putting bad guys behind bars. But when the pencil-dick geek turns out to be the scholarly but gorgeous and alluring Caitlin Summers, Alex realizes that the only thing he wants trembling is Caitlin . . . naked, and beneath him. The minute Caitlin lays eyes on the smoldering, charismatic Alex, she knows that focusing on her dissertation is going to be harder than she anticipated--not to mention dangerous. Because with a track record like Alex's, the bad guys are always looking for a soft spot--and she's the perfect soft spot. When Caitlin comes under attack, Alex realizes that his most important mission is keeping Caitlin safe . . . and making her his own.

Digital Signal Processing in Modern Communication Systems takes you on a journey that starts with basic DSP principles

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and ends with a treatment of modern wireless modems like OFDM and single-tone transceivers. Throughout this journey, we will cover signal processing topics that are applicable not just to the field of communications but to many engineering disciplines. This text steps outside the often dry mathematical presentation of more traditional DSP books and provides a more intuitive approach to this fascinating topic. Some of this book's uniqueness can be summarized as follows: - An intuitive approach to the topic of digital signal processing. - Working in-book MatLab examples supporting all important concepts. - A large scope covering basic concepts (correlation, convolution, DFT, FIR filters ...) as well as advanced topics (optimization, adaptive signal processing, equalization, OFDM, MIMO ...). - MatLab modeling of analog/RF effects (multipath channel, thermal noise, phase noise, IQ imbalances, DC and frequency offsets) that must be addressed and solved in modern modem design. - Real world topics that go beyond the ordinary communication textbooks such as signal synchronization, modem rate management, and fixed-point effects. All in all, this book is a must-have for students and practicing engineers who want to build upon the principles of Digital Signal Processing, enrich their understanding with advanced topics, and then apply that knowledge to the design of modern wireless modems. This book draws on both scientific insights and spiritual wisdom to help the reader focus on what is of value in helping them decide what makes for a good life. In using evidence from psychology, sociology, philosophy, theology, and other disciplines, it helps readers think through choices about what the good life consists of.

Required reading for anyone interested in the profound relationship between digital technology and society Digital technology has become an undeniable facet of our social lives, defining our governments, communities, and personal

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identities. Yet with these technologies in ongoing evolution, it is difficult to gauge the full extent of their societal impact, leaving researchers and policy makers with the challenge of staying up-to-date on a field that is constantly in flux. The Oxford Handbook of Digital Technology and Society provides students, researchers, and practitioners across the technology and social science sectors with a comprehensive overview of the foundations for understanding the various relationships between digital technology and society. Combining robust computer-aided reviews of current literature from the UK Economic and Social Research Council's commissioned project "Ways of Being in a Digital Age" with newly commissioned chapters, this handbook illustrates the upcoming research questions and challenges facing the social sciences as they address the societal impacts of digital media and technologies across seven broad categories: citizenship and politics, communities and identities, communication and relationships, health and well-being, economy and sustainability, data and representation, and governance and security. Individual chapters feature important practical and ethical explorations into topics such as technology and the aging, digital literacies, work-home boundary, machines in the workforce, digital censorship and surveillance, big data governance and regulation, and technology in the public sector. The Oxford Handbook of Digital Technology and Society will equip readers with the necessary starting points and provocations in the field so that scholars and policy makers can effectively assess future research, practice, and policy.

This Book Provides The Communications Engineer Involved In The Physical Layer Of Communications Systems, The Signal Processing Techniques And Design Tools Needed To Develop Efficient Algorithms For The Design Of Various Systems. These Systems Include Satellite Modems, Cable

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Modems, Wire-Line Modems, Cell-Phones, Various Radios, Multi-Channel Receivers, Audio Encoders, Surveillance Receivers, Laboratory Instruments, And Various Sonar And Radar Systems. The Emphasis Woven Through The Book Material Is That Of Intuitive Understanding Obtained By The Liberal Use Of Figures And Examples. The Book Contains Examples Of All These Types Of Systems. The Book Also Will Contain Matlab Script Files That Implement The Examples As Well As Design Tools For Filters Similar To The Examples.

Since the first edition of this book was published seven years ago, the field of modeling and simulation of communication systems has grown and matured in many ways, and the use of simulation as a day-to-day tool is now even more common practice. With the current interest in digital mobile communications, a primary area of application of modeling and simulation is now in wireless systems of a different flavor from the 'traditional' ones. This second edition represents a substantial revision of the first, partly to accommodate the new applications that have arisen. New chapters include material on modeling and simulation of nonlinear systems, with a complementary section on related measurement techniques, channel modeling and three new case studies; a consolidated set of problems is provided at the end of the book.

Synchronization is a critical function in digital communications; its failures may have catastrophic effects on the transmission system performance. Furthermore, synchronization circuits comprehend such a large part of the receiver hardware that their implementation has a substantial impact on the overall costs. For these reasons design engineers are particularly concerned with the development of new and more efficient synchronization structures.

Unfortunately, the advent of digital VLSI technology has

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radically affected modem design rules, to a point that most analog techniques employed so far have become totally obsolete. Although digital synchronization methods are well established by now in the literature, they only appear in the form of technical papers, often concentrating on specific performance or implementation issues. As a consequence they are hardly useful to give a unified view of an otherwise seemingly heterogeneous field. It is widely recognized that a fundamental understanding of digital synchronization can only be reached by providing the designer with a solid theoretical framework, or else he will not know where to adjust his methods when he attempts to apply them to new situations. The task of the present book is just to develop such a framework.

Sections on important areas such as spread spectrum, cellular communications, and orthogonal frequency-division multiplexing are provided. * Computational examples are included, illustrating how to use the computer as a simulation tool, thereby allowing waveforms, spectra, and performance curves to be generated. * Overviews of the necessary background in signal, system, probability, and random process theory required for the analog and digital communications topics covered in the book.

The clear, easy-to-understand introduction to digital communications Completely updated coverage of today's most critical technologies Step-by-step implementation coverage Trellis-coded modulation, fading channels, Reed-Solomon codes, encryption, and more Exclusive coverage of maximizing performance with advanced "turbo codes" "This is a remarkably comprehensive treatment of the field, covering in considerable detail modulation, coding (both source and channel), encryption, multiple access and spread spectrum. It can serve both as an excellent introduction for the graduate student with some background in probability theory or as a

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valuable reference for the practicing communication system engineer. For both communities, the treatment is clear and well presented." - Andrew Viterbi, The Viterbi Group Master every key digital communications technology, concept, and technique. Digital Communications, Second Edition is a thoroughly revised and updated edition of the field's classic, best-selling introduction. With remarkable clarity, Dr. Bernard Sklar introduces every digital communication technology at the heart of today's wireless and Internet revolutions, providing a unified structure and context for understanding them -- all without sacrificing mathematical precision. Sklar begins by introducing the fundamentals of signals, spectra, formatting, and baseband transmission. Next, he presents practical coverage of virtually every contemporary modulation, coding, and signal processing technique, with numeric examples and step-by-step implementation guidance. Coverage includes: Signals and processing steps: from information source through transmitter, channel, receiver, and information sink Key tradeoffs: signal-to-noise ratios, probability of error, and bandwidth expenditure Trellis-coded modulation and Reed-Solomon codes: what's behind the math Synchronization and spread spectrum solutions Fading channels: causes, effects, and techniques for withstanding fading The first complete how-to guide to turbo codes: squeezing maximum performance out of digital connections Implementing encryption with PGP, the de facto industry standard Whether you're building wireless systems, xDSL, fiber or coax-based services, satellite networks, or Internet infrastructure, Sklar presents the theory and the practical implementation details you need. With nearly 500 illustrations and 300 problems and exercises, there's never been a faster way to master advanced digital communications. CD-ROM INCLUDED The CD-ROM contains a complete educational version of Elanix'

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SystemView DSP design software, as well as detailed notes for getting started, a comprehensive DSP tutorial, and over 50 additional communications exercises.

This text uses the principles of discrete-time signal processing to introduce and analyze digital communications – connecting continuous-time and discrete-time ideas. The text brings under one cover the theoretical and practical issues from discrete-time signal processing, discrete-time filter design, multi-rate discrete-time processing, estimation theory, signal space analysis, numerical algorithms – all focused on digital communications. A useful reference for programmers. Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific.

Accompanys: 9780130304971 .

This book delves into the changes in technology regarding higher education and seeks to define what it means to be a scholar in the digital age.

This thorough revision of the classic Encyclopedia of Marine Mammals brings this authoritative book right up-to-date. Articles describe every species in detail, based on the very latest taxonomy, and a host of biological, ecological and sociological aspects relating to marine mammals. The latest information on the biology, ecology, anatomy, behavior and interactions with man is provided by a cast of expert authors – all presented in such detail and clarity to support both marine mammal specialists and the serious naturalist. Fully referenced throughout and with a fresh selection of the best color photographs available, the long-awaited second edition remains at the forefront as the go-to reference on marine mammals. More than 20% NEW MATERIAL includes articles

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on Climate Change, Pacific White-sided Dolphins, Sociobiology, Habitat Use, Feeding Morphology and more Over 260 articles on the individual species with topics ranging from anatomy and behavior, to conservation, exploitation and the impact of global climate change on marine mammals New color illustrations show every species and document topical articles FROM THE FIRST EDITION "This book is so good...a bargain, full of riches...packed with fascinating up to date information. I recommend it unreservedly it to individuals, students, and researchers, as well as libraries." --Richard M. Laws, MARINE MAMMALS SCIENCE "...establishes a solid and satisfying foundation for current study and future exploration" --Ronald J. Shusterman, SCIENCE

Over one billion people use the Internet globally.

Psychologists are beginning to understand what people do online, and the impact being online has on behaviour. It's making us re-think many of our existing assumptions about what it means to be a social being. For instance, if we can talk, flirt, meet people and fall in love online, this challenges many of psychology's theories that intimacy or understanding requires physical co-presence. "The Oxford Handbook of Internet Psychology" brings together many of the leading researchers in what can be termed 'Internet Psychology'. Though a very new area of research, it is growing at a phenomenal pace. In addition to well-studied areas of investigation, such as social identity theory, computer-mediated communication and virtual communities, the volume also includes chapters on topics as diverse as deception and misrepresentation, attitude change and persuasion online, Internet addiction, online relationships, privacy and trust, health and leisure use of the Internet, and the nature of interactivity. With over 30 chapters written by experts in the field, the range and depth of coverage is unequalled, and

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serves to define this emerging area of research. Uniquely, this content is supported by an entire section covering the use of the Internet as a research tool, including qualitative and quantitative methods, online survey design, personality testing, ethics, and technological and design issues. While it is likely to be a popular research resource to be 'dipped into', as a whole volume it is coherent and compelling enough to act as a single text book. "The Oxford Handbook of Internet Psychology" is the definitive text on this burgeoning field. It will be an essential resource for anyone interested in the psychological aspects of Internet use, or planning to conduct research using the 'net'.

A comprehensive and detailed treatment of the program SIMULINK® that focuses on SIMULINK® for simulations in Digital and Wireless Communications Modeling of Digital Communication Systems Using SIMULINK® introduces the reader to SIMULINK®, an extension of the widely-used MATLAB modeling tool, and the use of SIMULINK® in modeling and simulating digital communication systems, including wireless communication systems. Readers will learn to model a wide selection of digital communications techniques and evaluate their performance for many important channel conditions. Modeling of Digital Communication Systems Using SIMULINK® is organized in two parts. The first addresses Simulink® models of digital communications systems using various modulation, coding, channel conditions and receiver processing techniques. The second part provides a collection of examples, including speech coding, interference cancellation, spread spectrum, adaptive signal processing, Kalman filtering and modulation and coding techniques currently implemented in mobile wireless systems. Covers case examples, progressing from basic to complex Provides applications for mobile communications, satellite communications, and fixed wireless

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systems that reveal the power of SIMULINK modeling
Includes access to useable SIMULINK® simulations online All models in the text have been updated to R2018a; only problem sets require updating to the latest release by the user Covering both the use of SIMULINK® in digital communications and the complex aspects of wireless communication systems, Modeling of Digital Communication Systems Using SIMULINK® is a great resource for both practicing engineers and students with MATLAB experience. Digital Communications is a classic book in the area that is designed to be used as a senior or graduate level text. The text is flexible and can easily be used in a one semester course or there is enough depth to cover two semesters. Its comprehensive nature makes it a great book for students to keep for reference in their professional careers. This all-inclusive guide delivers an outstanding introduction to the analysis and design of digital communication systems. Includes expert coverage of new topics: Turbocodes, Turboequalization, Antenna Arrays, Digital Cellular Systems, and Iterative Detection. Convenient, sequential organization begins with a look at the history and classification of channel models and builds from there.

Thoroughly revised and updated, this Student Edition of the successful Handbook of New Media has been abridged to showcase the best of the hardback edition. This Handbook sets out boundaries of new media research and scholarship and provides a definitive statement of the current state-of-the-art of the field. Covering major problem areas of research, the Handbook of New Media includes an introductory essay by the editors and a concluding essay by Ron Rice. Each

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chapter, written by an internationally renowned scholar, provides a review of the most significant social research findings and insights.

There has been much scaremongering about the 'death of the book', and how, as words find new ways and means of transmission, young people might gradually begin to shun writing. In the digital age, text becomes information, and information strives to become free. But what value can text hold in the sphere of visual art? How is such text different from poetry? Can the poetic itself be visual art, or is text in this context consigned to the realms of gimmick and catchphrase? Looking at the work of a broad range of artists including Bruce Nauman, Julien Breton, Jeremy Deller, Takashi Murakami, Tracey Emin, Christian Boltanski and many more, *The Word is Art* examines each of these questions, contending above all that in the digital and online age, words have become more important than ever.

Gender, Supernatural Beings, and the Liminality of Death: Monstrous Males/Fatal Females examines how gender changes and manifests in stories and film through several different types of beings. With sections on social death, the walking dead, and the undead, this is a multi-faceted look at myth, legend, and popular culture creatures.

Probability, Random Variables, and Random Processes is a comprehensive textbook on probability theory for engineers that provides a more rigorous mathematical framework than is usually encountered in undergraduate courses. It is intended for first-year graduate students who have some familiarity with probability and random

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variables, though not necessarily of random processes and systems that operate on random signals. It is also appropriate for advanced undergraduate students who have a strong mathematical background. The book has the following features: Several appendices include related material on integration, important inequalities and identities, frequency-domain transforms, and linear algebra. These topics have been included so that the book is relatively self-contained. One appendix contains an extensive summary of 33 random variables and their properties such as moments, characteristic functions, and entropy. Unlike most books on probability, numerous figures have been included to clarify and expand upon important points. Over 600 illustrations and MATLAB plots have been designed to reinforce the material and illustrate the various characterizations and properties of random quantities. Sufficient statistics are covered in detail, as is their connection to parameter estimation techniques. These include classical Bayesian estimation and several optimality criteria: mean-square error, mean-absolute error, maximum likelihood, method of moments, and least squares. The last four chapters provide an introduction to several topics usually studied in subsequent engineering courses: communication systems and information theory; optimal filtering (Wiener and Kalman); adaptive filtering (FIR and IIR); and antenna beamforming, channel equalization, and direction finding. This material is available electronically at the companion website. Probability, Random Variables, and Random Processes is the only textbook on probability for engineers that includes relevant

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background material, provides extensive summaries of key results, and extends various statistical techniques to a range of applications in signal processing.

The book starts with a completely fresh perspective on introduction to signals and continues to dealing with complex numbers without any complicated mathematics.

The only skills you require are addition, multiplication and knowing what cos and sin are! The topics of discrete domains - both time and frequency - are explained in an intuitive manner such that traveling between the two through Discrete Fourier Transform (DFT) becomes quite natural. Furthermore, the concepts needed to implement modern digital communication systems such as convolution, filters and multirate signal processing are illustrated through the help of beautiful figures. Next, the book demystifies modulation and demodulation in a way easy to grasp even for a non-technical reader. The focus is on linear modulations, particularly Pulse Amplitude Modulation (PAM), Quadrature Amplitude Modulation (QAM) and Phase Shift Keying (PSK). Matched filtering is clarified in time, frequency and mathematical details in a story-like development. In addition, the topic of pulse shape filtering is covered in a depth and from angles never described anywhere before. The book continues with stethoscopes of a communication system, namely eye diagrams and scatter plots and towards the error rates of various modulation schemes along with the energy scaling factors of respective blocks. Finally, their spectral efficiencies are described taking into account the bandwidth, signal-to-noise ratio and data rates. This text is a simple way for you to enter at the beginner level

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and make your way up to wireless system design. Mathematics is included at a school level. I rely more on visualizing equations through beautiful figures. Therefore, you will encounter numerous figures throughout the text with logical and intuitive explanations. But you will not encounter any integrals, probability theory and detection/estimation theory. You will not even find any e or j of complex numbers either. The most complicated notation I have used is "sum everything from N_1 to N_2 ."

ePortfolio Performance Support Systems: Constructing, Presenting, and Assessing Portfolios addresses theories and practices advanced by some of the most innovative and active proponents of ePortfolios.

"This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

Among the staple foods most welcomed on southern tables--and on tables around the world--rice is without question the most versatile. As Michael Twitty observes, depending on regional tastes, rice may be enjoyed at breakfast, lunch, and dinner; as main dish, side dish, and snack; in dishes savory and sweet. Filling and delicious, rice comes in numerous botanical varieties and offers a vast range of scents, tastes, and textures depending on how it is cooked. In some dishes, it is crunchingly crispy; in others, soothingly smooth; in still others, somewhere right in between. Commingled or paired with other

foods, rice is indispensable to the foodways of the South. As Twitty's fifty-one recipes deliciously demonstrate, rice stars in Creole, Acadian, soul food, Low Country, and Gulf Coast kitchens, as well as in the kitchens of cooks from around the world who are now at home in the South. Exploring rice's culinary history and African diasporic identity, Twitty shows how to make the southern classics as well as international dishes--everything from Savannah Rice Waffles to Ghanaian Crab Stew. As Twitty gratefully sums up, "Rice connects me to every other person, southern and global, who is nourished by rice's traditions and customs."

Internet Studies has been one of the most dynamic and rapidly expanding interdisciplinary fields to emerge over the last decade. The Oxford Handbook of Internet Studies has been designed to provide a valuable resource for academics and students in this area, bringing together leading scholarly perspectives on how the Internet has been studied and how the research agenda should be pursued in the future. The Handbook aims to focus on Internet Studies as an emerging field, each chapter seeking to provide a synthesis and critical assessment of the research in a particular area. Topics covered include social perspectives on the technology of the Internet, its role in everyday life and work, implications for communication, power, and influence, and the governance and regulation of the Internet. The

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Handbook is a landmark in this new interdisciplinary field, not only helping to strengthen research on the key questions, but also shape research, policy, and practice across many disciplines that are finding the Internet and its political, economic, cultural, and other societal implications increasingly central to their own key areas of inquiry.

This text uses the principles of discrete-time signal processing to introduce and analyze digital communications - connecting continuous-time and discrete-time ideas. The text brings under one cover the theoretical and practical issues from discrete-time signal processing, discrete-time filter design, multi-rate discrete-time processing, estimation theory, signal space analysis, numerical algorithms - all focused on digital communications. A useful reference for programmers.

Recalling pivotal moments from her dynamic career on the front lines of American diplomacy and foreign policy, Susan E. Rice—National Security Advisor to President Barack Obama and US Ambassador to the United Nations—reveals her surprising story with unflinching candor in this New York Times bestseller. Mother, wife, scholar, diplomat, and fierce champion of American interests and values, Susan Rice powerfully connects the personal and the professional. Taught early, with tough love, how to compete and excel as an African American woman in settings where people of color are few, Susan now

shares the wisdom she learned along the way. Laying bare the family struggles that shaped her early life in Washington, DC, she also examines the ancestral legacies that influenced her. Rice's elders—immigrants on one side and descendants of slaves on the other—had high expectations that each generation would rise. And rise they did, but not without paying it forward—in uniform and in the pulpit, as educators, community leaders, and public servants. Susan too rose rapidly. She served throughout the Clinton administration, becoming one of the nation's youngest assistant secretaries of state and, later, one of President Obama's most trusted advisors. Rice provides an insider's account of some of the most complex issues confronting the United States over three decades, ranging from "Black Hawk Down" in Somalia to the genocide in Rwanda and the East Africa embassy bombings in the late 1990s, and from conflicts in Libya and Syria to the Ebola epidemic, a secret channel to Iran, and the opening to Cuba during the Obama years. With unmatched insight and characteristic bluntness, she reveals previously untold stories behind recent national security challenges, including confrontations with Russia and China, the war against ISIS, the struggle to contain the fallout from Edward Snowden's NSA leaks, the U.S. response to Russian interference in the 2016 election, and the surreal transition to the Trump administration.

Although you might think you know Susan Rice—whose name became synonymous with Benghazi following her Sunday news show appearances after the deadly 2012 terrorist attacks in Libya—now, through these pages, you truly will know her for the first time. Often mischaracterized by both political opponents and champions, Rice emerges as neither a villain nor a victim, but a strong, resilient, compassionate leader. Intimate, sometimes humorous, but always candid, *Tough Love* makes an urgent appeal to the American public to bridge our dangerous domestic divides in order to preserve our democracy and sustain our global leadership.

It has, improbably, been called uncommonly lucid, even riveting by *The New York Times*, and it was a finalist for the 2004 National Book Awards nonfiction honor. It is a literally chilling read, especially in its minute-by-minute description of the events of the morning of 9/11 inside the Twin Towers. It is *The 9/11 Commission Report*, which was, before its publication, perhaps one of the most anticipated government reports of all time, and has been since an unlikely bestseller. The official statement by the National Commission on Terrorist Attacks Upon the United States—which was instituted in late 2002 and chaired by former New Jersey Governor Thomas Kean—it details what went wrong on that day (such as intelligence failures), what went right (the heroic

response of emergency services and self-organizing civilians), and how to avert similar future attacks. Highlighting evidence from the day, from airport surveillance footage of the terrorists to phone calls from the doomed flights, and offering details that have otherwise gone unheard, this is an astonishing firsthand document of contemporary history. While controversial in parts-it has been criticized for failing to include testimony from key individuals, and it completely omits any mention of the mysterious collapse of WTC 7-it is nevertheless an essential record of one of the most transformational events of modern times.

With as many as 1 billion people now using online communities such as newsgroups, blogs, forums, social networking sites, podcasting, videocasting, photosharing communities, and virtual worlds, the internet is now an important site for research. This exciting new text is the first to explore the discipline of 'Netnography' - the conduct of ethnography over the internet - a method specifically designed to study cultures and communities online. For the first time, full procedural guidelines for the accurate and ethical conduct of ethnographic research online are set out, with detailed, step-by-step guidance to thoroughly introduce, explain, and illustrate the method to students and researchers. The author also surveys the latest research on online cultures and communities, focusing on the methods used to study

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them, with examples focusing on the new elements and contingencies of the blogosphere (blogging), microblogging, videocasting, podcasting, social networking sites, virtual worlds and more. This book will be essential reading for researchers and students in social sciences such as anthropology, sociology, marketing and consumer research, organization and management studies and cultural and media studies.

The author writes an open "love letter" to the African-American women in his life, proclaiming his adoration and respect for women of color in America. 100,000 first printing.

Offers the most complete, up-to-date coverage available on the principles of digital communications. Focuses on basic issues, relating theory to practice wherever possible. Numerous examples, worked out in detail, have been included to help the reader develop an intuitive grasp of the theory. Topics covered include the sampling process, digital modulation techniques, error-control coding, robust quantization for pulse-code modulation, coding speech at low bit rate, information theoretic concepts, coding and computer communication. Because the book covers a broad range of topics in digital communications, it should satisfy a variety of backgrounds and interests, and offers a great deal of flexibility for teaching the course. The author has included suggested course outlines for courses at

the undergraduate or graduate levels.

Pairing full-length scholarly essays with shorter pieces drawn from scholarly blogs and conference presentations, as well as commissioned interviews and position statements, *Debates in the Digital Humanities 2016* reveals a dynamic view of a field in negotiation with its identity, methods, and reach. Pieces in the book explore how DH can and must change in response to social justice movements and events like #Ferguson; how DH alters and is altered by community college classrooms; and how scholars applying DH approaches to feminist studies, queer studies, and black studies might reframe the commitments of DH analysts. Numerous contributors examine the movement of interdisciplinary DH work into areas such as history, art history, and archaeology, and a special forum on large-scale text mining brings together position statements on a fast-growing area of DH research. In the multivalent aspects of its arguments, progressing across a range of platforms and environments, *Debates in the Digital Humanities 2016* offers a vision of DH as an expanded field—new possibilities, differently structured. Published simultaneously in print, e-book, and interactive webtext formats, each DH annual will be a book-length publication highlighting the particular debates that have shaped the discipline in a given year. By identifying key issues as they unfold, and by providing a hybrid model of open-access publication, these volumes and the *Debates in the Digital Humanities* series will articulate the present contours of the field and help forge its future. Contributors: Moya Bailey, Northeastern U; Fiona Barnett; Matthew Battles, Harvard U; Jeffrey M. Binder; Zach Blas, U of London; Cameron Blevins, Rutgers U; Sheila A. Brennan, George Mason U; Timothy Burke, Swarthmore College; Rachel Sagner Buurma, Swarthmore College; Micha Cárdenas, U of

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Washington—Bothell; Wendy Hui Kyong Chun, Brown U; Tanya E. Clement, U of Texas—Austin; Anne Cong-Huyen, Whittier College; Ryan Cordell, Northeastern U; Tressie McMillan Cottom, Virginia Commonwealth U; Amy E. Earhart, Texas A&M U; Domenico Fiormonte, U of Roma Tre; Paul Fyfe, North Carolina State U; Jacob Gaboury, Stony Brook U; Kim Gallon, Purdue U; Alex Gil, Columbia U; Brian Greenspan, Carleton U; Richard Grusin, U of Wisconsin, Milwaukee; Michael Hancher, U of Minnesota; Molly O'Hagan Hardy; David L. Hoover, New York U; Wendy F. Hsu; Patrick Jagoda, U of Chicago; Jessica Marie Johnson, Michigan State U; Steven E. Jones, Loyola U; Margaret Linley, Simon Fraser U; Alan Liu, U of California, Santa Barbara; Elizabeth Losh, U of California, San Diego; Alexis Lothian, U of Maryland; Michael Maizels, Wellesley College; Mark C. Marino, U of Southern California; Anne B. McGrail, Lane Community College; Bethany Nowviskie, U of Virginia; Julianne Nyhan, U College London; Amanda Phillips, U of California, Davis; Miriam Posner, U of California, Los Angeles; Rita Raley, U of California, Santa Barbara; Stephen Ramsay, U of Nebraska—Lincoln; Margaret Rhee, U of Oregon; Lisa Marie Rhody, Graduate Center, CUNY; Roopika Risam, Salem State U; Stephen Robertson, George Mason U; Mark Sample, Davidson College; Jentery Sayers, U of Victoria; Benjamin M. Schmidt, Northeastern U; Scott Selisker, U of Arizona; Jonathan Senchyne, U of Wisconsin, Madison; Andrew Stauffer, U of Virginia; Joanna Swafford, SUNY New Paltz; Toniesha L. Taylor, Prairie View A&M U; Dennis Tenen; Melissa Terras, U College London; Anna Tione; Ted Underwood, U of Illinois, Urbana—Champaign; Ethan Watrall, Michigan State U; Jacqueline Wernimont, Arizona State U; Laura Wexler, Yale U; Hong-An Wu, U of Illinois, Urbana—Champaign.

In this new, fully revised and expanded Fourth Edition, Rice

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and Atkin provide readers with a comprehensive, up-to-date look into the field of public communication campaigns. The subject of campaigns has become increasingly high profile in the academic world in the decade since the last edition, and hundreds of new studies on campaign theory and practice have been published since 2001. Moreover, the rise of new media has expanded the array of strategies for designing and implementing campaigns. Largely rewritten to reflect the latest theories and research, this text continues in the tradition of ongoing improvement and expansion into new areas, including sun protection, organ donation, human rights, social norms, corporate social responsibility, use of condoms, ocean sustainability, fear messages, and digital games. Classic chapters are updated, on topics such as campaign history, theoretical foundations, formative evaluation, systems approaches, input-output persuasion matrix, design and evaluation, meta-analysis, and sense-making methodology.

Based on the popular Artech House classic, *Digital Communication Systems Engineering with Software-Defined Radio*, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and

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details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

This book considers the great cultural and geopolitical changes in western Eurasia in the fifth century CE. It focuses on the Roman Empire, but it also examines the changes taking place in northern Europe, in Iran under the Sasanian Empire, and on the great Eurasian steppe. Attila is presented as a contributor to and a symbol of these transformations. Signal-space methods provide a unifying framework for modulation, detection and coding concepts. Three chapters on coding provide valuable design information for communications systems.

The Routledge Handbook of Health Communication brings together the current body of scholarly work in health communication. With its expansive scope, it offers an introduction for those new to this area, summarizes work for those already learned in the area, and suggests avenues for future research on the relationships between communicative processes and health/health care delivery. This second edition of the Handbook has been organized to reflect the goals of health communication: understanding to make informed decisions and to promote formal and informal systems of care linked to health and well-being. It emphasizes work in such areas as barriers to disclosure in family conversations and medical interactions, access to popular media and advertising, and individual searches online for information and support to guide decisions and behaviors with health consequences. This edition also adds an overview of methods used in health communication and the unique

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challenges facing health communication researchers applying traditional methods to efforts to gain reliable and valid evidence about the role of communication for health. It introduces the promise of translational research being conducted by health communication researchers from multiple disciplines to form transdisciplinary theories and teams to increase the well-being of not only humans but the systems of care within their nations. Arguably the most comprehensive scholarly resource available for study in this area, the Routledge Handbook of Health Communication serves an invaluable role and reference for students, researchers, and scholars doing work in health communication.

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