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KEY=CONTROL - ANASTASIA MAYS

NANOMETER FREQUENCY SYNTHESIS BEYOND THE PHASE-LOCKED LOOP

John Wiley & Sons Introducing a new, pioneering approach to integrated circuit design **Nanometer Frequency Synthesis Beyond Phase-Locked Loop** introduces an innovative new way of looking at frequency that promises to open new frontiers in modern integrated circuit (IC) design. While most books on frequency synthesis deal with the phase-locked loop (PLL), this book focuses on the clock signal. It revisits the concept of frequency, solves longstanding problems in on-chip clock generation, and presents a new time-based information processing approach for future chip design. Beginning with the basics, the book explains how clock signal is used in electronic applications and outlines the shortcomings of conventional frequency synthesis techniques for dealing with clock generation problems. It introduces the breakthrough concept of Time-Average-Frequency, presents the Flying-Adder circuit architecture for the implementation of this approach, and reveals a new circuit device, the Digital-to-Frequency Converter (DFC). Lastly, it builds upon these three key components to explain the use of time rather than level to represent information in signal processing. Provocative, inspiring, and chock-full of ideas for future innovations, the book features: A new way of thinking about the fundamental concept of clock frequency A new circuit architecture for frequency synthesis: the Flying-Adder direct period synthesis A new electronic component: the Digital-to-Frequency Converter A new information processing approach: time-based vs. level-based Examples demonstrating the power of this technology to build better, cheaper, and faster systems Written with the intent of showing readers how to think outside the box, **Nanometer Frequency Synthesis Beyond the Phase-Locked Loop** is a must-have resource for IC design engineers and researchers as well as anyone who would like to be at the forefront of modern circuit design.

OP AMPS FOR EVERYONE

DESIGN REFERENCE

Newnes The operational amplifier ("op amp") is the most versatile and widely used type of analog IC, used in audio and voltage amplifiers, signal conditioners, signal converters, oscillators, and analog computing systems. Almost every electronic device uses at least one op amp. This book is Texas Instruments' complete professional-level tutorial and reference to operational amplifier theory and applications. Among the topics covered are basic op amp physics (including reviews of current and voltage division, Thevenin's theorem, and transistor models), idealized op amp operation and configuration, feedback theory and methods, single and dual supply operation, understanding op amp parameters, minimizing noise in op amp circuits, and practical applications such as instrumentation amplifiers, signal conditioning, oscillators, active filters, load and level conversions, and analog computing. There is also extensive coverage of circuit construction techniques, including circuit board design, grounding, input and output isolation, using decoupling capacitors, and frequency characteristics of passive components. The material in this book is applicable to all op amp ICs from all manufacturers, not just TI. Unlike textbook treatments of op amp theory that tend to focus on idealized op amp models and configuration, this title uses idealized models only when necessary to explain op amp theory. The bulk of this book is on real-world op amps and their applications; considerations such as thermal effects, circuit noise, circuit buffering, selection of appropriate op amps for a given application, and unexpected effects in passive components are all discussed in detail. *Published in conjunction with Texas Instruments *A single volume, professional-level guide to op amp theory and applications *Covers circuit board layout techniques for manufacturing op amp circuits.

STATISTICAL ANALYSIS AND OPTIMIZATION FOR VLSI: TIMING AND POWER

Springer Science & Business Media Covers the statistical analysis and optimization issues arising due to increased process variations in current technologies. Comprises a valuable reference for statistical analysis and optimization techniques in current and future VLSI design for CAD-Tool developers and for researchers interested in starting work in this very active area of research. Written by author who lead much research in this area who provide novel ideas and approaches to handle the addressed issues

LOCAL STRUCTURE AND DYNAMICS OF III-V SEMICONDUCTOR ALLOYS BY HIGH RESOLUTION X-RAY PAIR DISTRIBUTION FUNCTION ANALYSIS

HYDROGEN: A RENEWABLE ENERGY PERSPECTIVE

International Renewable Energy Agency (IRENA) This paper examines the potential of hydrogen fuel for hard-to-decarbonise energy uses, including aviation, shipping and other. But the decarbonisation impact depends on how hydrogen is produced.

ATRIAL FIBRILLATION

BASIC RESEARCH AND CLINICAL APPLICATIONS

BoD - Books on Demand **Atrial Fibrillation-Basic Research and Clinical Applications** is designed to provide a comprehensive review and to introduce outstanding and novel researches. This book contains 22 polished chapters and consists of five sections: 1. Basic mechanisms of initiation and maintenance of atrial fibrillation and its pathophysiology, 2. Mapping of atrial fibrillation and novel methods of signal detection. 3. Clinical prognostic predictors of atrial fibrillation and remodeling, 4. Systemic reviews of catheter-based/surgical treatment and novel targets for treatment of atrial fibrillation and 5. Atrial fibrillation in specific conditions and its complications. Each chapter updates the knowledge of atrial fibrillation, providing state-of-the art for not only scientists and clinicians who are interested in electrophysiology, but also general cardiologists.

SEARCH RANK FACTS

KWB Entertainment Inc.

SIMULATION OF COMMUNICATION SYSTEMS

Springer Simulation may be defined as the discipline whose objective is to imitate one or more aspects of reality in a way that is as close to that reality as possible; indeed, an apt synonym that is gaining some currency is artificial reality. Under this definition, simulation is a very old discipline. Probably the first applications of simulation were to scale models of various types of dynamical structures or mechanical devices. Man has always looked for ways to "try things out" before building the real thing; this is the motivation behind any form of simulation. Thus, simulation of communication systems is concerned with imitating some aspects of the behavior of communication systems. It is implicit in our use of simulation that the medium (so to speak) for carrying it out is the digital computer. Computer-based modeling and simulation of communication systems has only developed in the last 20 years or so, since the advent of modern digital computers. A variety of modeling and simulation techniques have been developed and described in widely scattered journals, but until now there has not been a single volume devoted to the subject. We have tried to provide a unified framework that describes both the disciplines involved and the methods of modeling and simulating communication systems and subsystems. In the electronic era, the first type of computer simulation, in today's use of the term, took shape in the form of analog computers.

SIGNAL PROCESSING FOR IMAGE ENHANCEMENT AND MULTIMEDIA PROCESSING

Springer Science & Business Media This is an edited volume, written by well-recognized international researchers with extended chapter style versions of the best papers presented at the SITIS 2006 International Conference. This book presents the state-of-the-art and recent research results on the application of advanced signal processing techniques for improving the value of image and video data. It introduces new results on video coding on time-honored topic of securing image information. The book is designed for a professional audience composed of practitioners and researchers in industry. This book is also suitable for advanced-level students in computer science.

ROBOTICS AND AUTOMATION HANDBOOK

CRC Press As the capability and utility of robots has increased dramatically with new technology, robotic systems can perform tasks that are physically dangerous for humans, repetitive in nature, or require increased accuracy, precision, and sterile conditions to radically minimize human error. The Robotics and Automation Handbook addresses the major aspects of designing, fabricating, and enabling robotic systems and their various applications. It presents kinetic and dynamic methods for analyzing robotic systems, considering factors such as force and torque. From these analyses, the book develops several controls approaches, including servo actuation, hybrid control, and trajectory planning. Design aspects include determining specifications for a robot, determining its configuration, and utilizing sensors and actuators. The featured applications focus on how the specific difficulties are overcome in the development of the robotic system. With the ability to increase human safety and precision in applications ranging from handling hazardous materials and exploring extreme environments to manufacturing and medicine, the uses for robots are growing steadily. The Robotics and Automation Handbook provides a solid foundation for engineers and scientists interested in designing, fabricating, or utilizing robotic systems.

GENERAL TECHNICAL REPORT INT

LEVEL I STABILITY ANALYSIS (LISA) DOCUMENTATION FOR VERSION 2.0

INTEGRATED SOUND SYNCHRONISATION FOR COMPUTER ANIMATION

WIRELESS, NETWORKING, RADAR, SENSOR ARRAY PROCESSING, AND NONLINEAR SIGNAL PROCESSING

CRC Press Now available in a three-volume set, this updated and expanded edition of the bestselling *The Digital Signal Processing Handbook* continues to provide the engineering community with authoritative coverage of the fundamental and specialized aspects of information-bearing signals in digital form. Encompassing essential background material, technical details, standards, and software, the second edition reflects cutting-edge information on signal processing algorithms and protocols related to speech, audio, multimedia, and video processing technology associated with standards ranging from WiMax to MP3 audio, low-power/high-performance DSPs, color image processing, and chips on video. Drawing on the experience of leading engineers, researchers, and scholars, the three-volume set contains 29 new chapters that address multimedia and Internet technologies, tomography, radar systems, architecture, standards, and future applications in speech, acoustics, video, radar, and telecommunications. This volume, *Wireless, Networking, Radar, Sensor Array Processing, and Nonlinear Signal Processing*, provides complete coverage of the foundations of signal processing related to wireless, radar, space-time coding, and mobile communications, together with associated applications to networking, storage, and communications.

CRYPTOGRAPHY AND CODING

14TH IMA INTERNATIONAL CONFERENCE, IMACC 2013, OXFORD, UK, DECEMBER 17-19, 2013, PROCEEDINGS

Springer This book constitutes the proceedings of the 14th IMA International Conference on Cryptography and Coding, IMACC 2013, held at Oxford, UK, in December 2013. The 20 papers presented were carefully reviewed and selected for inclusion in this book. They are organized in topical sections named: bits and booleans; homomorphic encryption; codes and applications; cryptanalysis; protecting against leakage; hash functions; key issues and public key primitives.

ASSESSMENT OF COWFISH FOR PREDICTING TROUT POPULATIONS IN GRAZED WATERSHEDS OF THE INTERMOUNTAIN WEST

The COWFISH model, developed and applied in selected Montana streams, was tested on 14 streams in Idaho, Nevada, and Utah, where it proved to have little value for predicting numbers of trout in watersheds grazed by livestock. The model holds promise for estimating the health of stream channels and riparian complexes.

WDM SYSTEMS AND NETWORKS

MODELING, SIMULATION, DESIGN AND ENGINEERING

Springer Science & Business Media *Modeling, Simulation, Design and Engineering of WDM Systems and Networks* provides readers with the basic skills, concepts, and design techniques used to begin design and engineering of optical communication systems and networks at various layers. The latest semi-analytical system simulation techniques are applied to optical WDM systems and networks, and a review of the various current areas of optical communications is presented. Simulation is mixed with experimental verification and engineering to present the industry as well as state-of-the-art research. This contributed volume is divided into three parts, accommodating different readers interested in various types of networks and applications. The first part of the book presents modeling approaches and simulation tools mainly for the physical layer including transmission effects, devices, subsystems, and systems), whereas the second part features more engineering/design issues for various types of optical systems including ULH, access, and in-building systems. The third part of the book covers networking issues related to the design of provisioning and survivability algorithms for impairment-aware and multi-domain networks. Intended for professional scientists, company engineers, and university researchers, the text demonstrates the effectiveness of computer-aided design when it comes to network engineering and prototyping.

STRENGTHENING FORENSIC SCIENCE IN THE UNITED STATES

A PATH FORWARD

National Academies Press Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. *Strengthening Forensic Science in the United States: A Path Forward* provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. *Strengthening Forensic Science in the United States* gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

R MARKDOWN

THE DEFINITIVE GUIDE

CRC Press *R Markdown: The Definitive Guide* is the first official book authored by the core R Markdown developers that provides a comprehensive and accurate reference to the R Markdown ecosystem. With R Markdown, you can easily create reproducible data analysis reports, presentations, dashboards, interactive applications, books, dissertations, websites, and journal articles, while enjoying the simplicity of Markdown and the great power of R and other languages. In this book, you will learn Basics: Syntax of Markdown and R code chunks, how to generate figures and tables, and how to use other computing languages Built-in output formats of R Markdown: PDF/HTML/Word/RTF/Markdown documents and ioslides/Slidy/Beamer/PowerPoint presentations Extensions and applications: Dashboards, Tufte handouts, xaringan/reveal.js presentations, websites, books, journal articles, and interactive tutorials Advanced topics: Parameterized reports, HTML widgets, document templates, custom output formats, and Shiny documents. Yihui Xie is a software engineer at RStudio. He has authored and co-authored several R packages, including knitr, rmarkdown, bookdown, blogdown, shiny, xaringan, and animation. He has published three other books, *Dynamic Documents with R and knitr*, *bookdown: Authoring Books and Technical Documents with R Markdown*, and *blogdown: Creating Websites with R Markdown*. J.J. Allaire is the founder of RStudio and the creator of the RStudio IDE. He is an author of several packages in the R Markdown ecosystem including rmarkdown, flexdashboard, learnr, and radix. Garrett Grolemond is the co-author of *R for Data Science* and author of *Hands-On Programming with R*. He wrote the lubridate R package and works for RStudio as an advocate who trains engineers to do data science with R and the Tidyverse.

PROCEEDINGS

IEEE Computer Society

DIGITAL SIGNAL PROCESSING FUNDAMENTALS

CRC Press Now available in a three-volume set, this updated and expanded edition of the bestselling *The Digital Signal Processing Handbook* continues to provide the engineering community with authoritative coverage of the fundamental and specialized aspects of information-bearing signals in digital form. Encompassing essential background material, technical details, standards, and software, the second edition reflects cutting-edge information on signal processing algorithms and protocols related to speech, audio, multimedia, and video processing technology associated with standards ranging from WiMax to MP3 audio, low-power/high-performance DSPs, color image processing, and chips on video. Drawing on the experience of leading engineers, researchers, and scholars, the three-volume set contains 29 new chapters that address multimedia and Internet technologies, tomography, radar systems, architecture, standards, and future applications in speech, acoustics, video, radar, and telecommunications. Emphasizing theoretical concepts, *Digital Signal Processing Fundamentals* provides comprehensive coverage of the basic foundations of DSP and includes the following parts: Signals and Systems; Signal Representation and Quantization; Fourier Transforms; Digital Filtering; Statistical Signal Processing; Adaptive Filtering; Inverse Problems and Signal Reconstruction; and Time-Frequency and Multirate Signal Processing.

CONSTRUCTING AND TESTING LOGISTIC REGRESSION MODELS FOR BINARY DATA

APPLICATIONS TO THE NATIONAL FIRE DANGER RATING SYSTEM

BEHAVIORAL MODELING AND LINEARIZATION OF RF POWER AMPLIFIERS

Artech House Wireless voice and data communications have made great improvements, with connectivity now virtually ubiquitous. Users are demanding essentially perfect transmission and reception of voice and data. The infrastructure that supports this wide connectivity and nearly error-free delivery of information is complex, costly, and continually being improved. This resource describes the mathematical methods and practical implementations of linearization techniques for RF power amplifiers for mobile communications. This includes a review of RF power amplifier design for high efficiency operation. Readers are also provided with mathematical approaches to modeling nonlinear dynamical systems,

which can be applied in the context of modeling the PA for identification in a pre-distortion system. This book also describes typical approaches to linearization and digital pre-distortion that are used in practice.

INTERNATIONAL CONVERGENCE OF CAPITAL MEASUREMENT AND CAPITAL STANDARDS

A REVISED FRAMEWORK

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ACM SIGPLAN NOTICES

A MONTHLY PUBLICATION OF THE SPECIAL INTEREST GROUP ON PROGRAMMING LANGUAGES

BASIC LINEAR DESIGN

NEAR-CAPACITY VARIABLE-LENGTH CODING

REGULAR AND EXIT-CHART-AIDED IRREGULAR DESIGNS

John Wiley & Sons Recent developments such as the invention of powerful turbo-decoding and irregular designs, together with the increase in the number of potential applications to multimedia signal compression, have increased the importance of variable length coding (VLC). Providing insights into the very latest research, the authors examine the design of diverse near-capacity VLC codes in the context of wireless telecommunications. The book commences with an introduction to Information Theory, followed by a discussion of Regular as well as Irregular Variable Length Coding and their applications in joint source and channel coding. Near-capacity designs are created using Extrinsic Information Transfer (EXIT) chart analysis. The latest techniques are discussed, outlining radical concepts such as Genetic Algorithm (GA) aided construction of diverse VLC codes. The book concludes with two chapters on VLC-based space-time transceivers as well as on frequency-hopping assisted schemes, followed by suggestions for future work on the topic. Surveys the historic evolution and development of VLCs Discusses the very latest research into VLC codes Introduces the novel concept of Irregular VLCs and their application in joint-source and channel coding

CARBON DIOXIDE CAPTURE AND STORAGE

SPECIAL REPORT OF THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

Cambridge University Press IPCC Report on sources, capture, transport, and storage of CO₂, for researchers, policy-makers and engineers.

BULLETIN OF THE ATOMIC SCIENTISTS

The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

GALILEO POSITIONING TECHNOLOGY

Springer This book covers multi-band Galileo receivers (especially E1-E5 bands of Galileo) and addresses all receiver building blocks, from the antenna and front end, through details of the baseband receiver processing blocks, up to the navigation processing, including the Galileo message structure and Position, Velocity, Time (PVT) computation. Moreover, hybridization solutions with communications systems for improved localization are discussed and an open-source GNSS receiver platform (available for download) developed at Tampere University of Technology (TUT) is addressed in detail.

LARGE SCALE AND BIG DATA

PROCESSING AND MANAGEMENT

CRC Press Large Scale and Big Data: Processing and Management provides readers with a central source of reference on the data management techniques currently available for large-scale data processing. Presenting chapters written by leading researchers, academics, and practitioners, it addresses the fundamental challenges associated with Big Data processing tools and techniques across a range of computing environments. The book begins by discussing the basic concepts and tools of large-scale Big Data processing and cloud computing. It also provides an overview of different programming models and cloud-based deployment models. The book's second section examines the usage of advanced Big Data processing techniques in different domains, including semantic web, graph processing, and stream processing. The third section discusses advanced topics of Big Data processing such as consistency management, privacy, and security. Supplying a comprehensive summary from both the research and applied perspectives, the book covers recent research discoveries and applications, making it an ideal reference for a wide range of audiences, including researchers and academics working on databases, data mining, and web scale data processing. After reading this book, you will gain a fundamental understanding of how to use Big Data-processing tools and techniques effectively across application domains. Coverage includes cloud data management architectures, big data analytics visualization, data management, analytics for vast amounts of unstructured data, clustering, classification, link analysis of big data, scalable data mining, and machine learning techniques.

TEN STEPS TO A RESULTS-BASED MONITORING AND EVALUATION SYSTEM

A HANDBOOK FOR DEVELOPMENT PRACTITIONERS

World Bank Publications An effective state is essential to achieving socio-economic and sustainable development. With the advent of globalization, there are growing pressures on governments and organizations around the world to be more responsive to the demands of internal and external stakeholders for good governance, accountability and transparency, greater development effectiveness, and delivery of tangible results. Governments, parliaments, citizens, the private sector, NGOs, civil society, international organizations and donors are among the stakeholders interested in better performance. As demands for greater accountability and real results have increased, there is an attendant need for enhanced results-based monitoring and evaluation of policies, programs, and projects. This Handbook provides a comprehensive ten-step model that will help guide development practitioners through the process of designing and building a results-based monitoring and evaluation system. These steps begin with a OC Readiness AssessmentOCO and take the practitioner through the design, management, and importantly, the sustainability of such systems. The Handbook describes each step in detail, the tasks needed to complete each one, and the tools available to help along the way."

POPULAR SCIENCE

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

THE DIGITAL SIGNAL PROCESSING HANDBOOK

CRC Press The field of digital signal processing (DSP) has spurred developments from basic theory of discrete-time signals and processing tools to diverse applications in telecommunications, speech and acoustics, radar, and video. This volume provides an accessible reference, offering theoretical and practical information to the audience of DSP users. This immense compilation outlines both introductory and specialized aspects of information-bearing signals in digital form, creating a resource relevant to the expanding needs of the engineering community. It also explores the use of computers and special-purpose digital hardware in extracting information or transforming signals in advantageous ways. Impacted areas presented include: Telecommunications Computer engineering Acoustics Seismic data analysis DSP software and hardware Image and video processing Remote sensing Multimedia applications Medical technology Radar and sonar applications This authoritative collaboration, written by the foremost researchers and practitioners in their fields, comprehensively presents the range of DSP: from theory to application, from algorithms to hardware.

PISA TAKE THE TEST SAMPLE QUESTIONS FROM OECD'S PISA ASSESSMENTS

SAMPLE QUESTIONS FROM OECD'S PISA ASSESSMENTS

OECD Publishing This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.

PM: PROGRAM MANAGER (ONLINE) MAY JUNE 2001 ISSUE

DIANE Publishing

A PRACTICAL GUIDE TO SYSML

THE SYSTEMS MODELING LANGUAGE

Morgan Kaufmann **A Practical Guide to SysML: The Systems Modeling Language** is a comprehensive guide to SysML for systems and software engineers. It provides an advanced and practical resource for modeling systems with SysML. The source describes the modeling language and offers information about employing SysML in transitioning an organization or project to model-based systems engineering. The book also presents various examples to help readers understand the OMG Systems Modeling Professional (OCSMP) Certification Program. The text is organized into four parts. The first part provides an overview of systems engineering. It explains the model-based approach by comparing it with the document-based approach and providing the modeling principles. The overview of SYsML is also discussed. The second part of the book covers a comprehensive description of the language. It discusses the main concepts of model organization, parametrics, blocks, use cases, interactions, requirements, allocations, and profiles. The third part presents examples that illustrate how SysML supports different model-based procedures. The last part discusses how to transition and deploy SysML into an organization or project. It explains the integration of SysML into a systems development environment. Furthermore, it describes the category of data that are exchanged between a SysML tool and other types of tools, and the types of exchange mechanisms that can be used. It also covers the criteria that must be considered when selecting a SysML. Software and systems engineers, programmers, IT practitioners, experts, and non-experts will find this book useful. *The authoritative guide for understanding and applying SysML *Authored by the foremost experts on the language *Language description, examples, and quick reference guide included

KNOWLEDGE-BASED INTELLIGENT INFORMATION AND ENGINEERING SYSTEMS

... INTERNATIONAL CONFERENCE, KES ... : PROCEEDINGS

CHINESE JOURNAL OF ELECTRONICS

MORE THAN SCREEN DEEP

TOWARD EVERY-CITIZEN INTERFACES TO THE NATION'S INFORMATION INFRASTRUCTURE

National Academies Press The national information infrastructure (NII) holds the promise of connecting people of all ages and descriptions--bringing them opportunities to interact with businesses, government agencies, entertainment sources, and social networks. Whether the NII fulfills this promise for everyone depends largely on interfaces--technologies by which people communicate with the computing systems of the NII. *More Than Screen Deep* addresses how to ensure NII access for every citizen, regardless of age, physical ability, race/ethnicity, education, ability, cognitive style, or economic level. This thoughtful document explores current issues and prioritizes research directions in creating interface technologies that accommodate every citizen's needs. The committee provides an overview of NII users, tasks, and environments and identifies the desired characteristics in every-citizen interfaces, from power and efficiency to an element of fun. The book explores: Technological advances that allow a person to communicate with a computer system. Methods for designing, evaluating, and improving interfaces to increase their ultimate utility to all people. Theories of communication and collaboration as they affect person-computer interactions and person-person interactions through the NII. Development of agents: intelligent computer systems that "understand" the user's needs and find the solutions. Offering data, examples, and expert commentary, *More Than Screen Deep* charts a path toward enabling the broadest-possible spectrum of citizens to interact easily and effectively with the NII. This volume will be important to policymakers, information system designers and engineers, human factors professionals, and advocates for special populations.