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"A textbook for 4th year undergraduate/first year graduate electrical engineering students"--
The new edition of the leading resource on designing digital frequency synthesizers from microwave and wireless applications, fully updated to reflect the most modern integrated circuits and semiconductors Microwave and Wireless Synthesizers: Theory and Design, Second Edition,

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remains the standard text on the subject by providing complete and up-to-date coverage of both practical and theoretical aspects of modern frequency synthesizers and their components. Featuring contributions from leading experts in the field, this classic volume describes loop fundamentals, noise and spurious responses, special loops, loop components, multiloop synthesizers, and more. Practical synthesizer examples illustrate the design of a high-performance hybrid synthesizer and performance measurement techniques—offering readers clear

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instruction on the various design steps and design rules. The second edition includes extensively revised content throughout, including a modern approach to dealing with the noise and spurious response of loops and updated material on digital signal processing and architectures. Reflecting today's technology, new practical and validated examples cover a combination of analog and digital synthesizers and hybrid systems. Enhanced and expanded chapters discuss implementations of direct digital synthesis (DDS) architectures, the voltage-controlled oscillator (VCO), crystal and

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other high-Q based oscillators, arbitrary waveform generation, vector signal generation, and other current tools and techniques. Now requiring no additional literature to be useful, this comprehensive, one-stop resource: Provides a fully reviewed, updated, and enhanced presentation of microwave and wireless synthesizers Presents a clear mathematical method for designing oscillators for best noise performance at both RF and microwave frequencies Contains new illustrations, figures, diagrams, and examples Includes extensive appendices to aid in calculating

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phase noise in free-running oscillators, designing VHF and UHF oscillators with CAD software, using state-of-the-art synthesizer chips, and generating millimeter wave frequencies using the delay line principle Containing numerous designs of proven circuits and more than 500 relevant citations from scientific journal and papers, Microwave and Wireless Synthesizers: Theory and Design, Second Edition, is a must-have reference for engineers working in the field of radio communication, and the perfect textbook for advanced electrical engineering students.

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Analog Circuit Design contains the contribution of 18 tutorials of the 18th workshop on Advances in Analog Circuit Design. Each part discusses a specific to-date topic on new and valuable design ideas in the area of analog circuit design. Each part is presented by six experts in that field and state of the art information is shared and overviewed. This book is number 18 in this successful series of Analog Circuit Design, providing valuable information and excellent overviews of: Smart Data Converters: Chaired by Prof. Arthur van Roermund, Eindhoven University of Technology, Filters on

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Chip: Chaired by Herman Casier, AMI
Semiconductor Fellow, Multimode Transmitters:
Chaired by Prof. M. Steyaert, Catholic University
Leuven, Analog Circuit Design is an essential
reference source for analog circuit designers and
researchers wishing to keep abreast with the latest
development in the field. The tutorial coverage also
makes it suitable for use in an advanced design.
Following an introduction to biogenic metal
nanoparticles, this book presents how they can be
biosynthesized using bacteria, fungi and yeast, as
well as their potential applications in biomedicine.

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It is shown that the synthesis of nanoparticles using microbes is eco-friendly and results in reproducible metal nanoparticles of well-defined sizes, shapes and structures. This biotechnological approach based on the process of biomineralization exploits the effectiveness and flexibility of biological systems. Chapters include practical protocols for microbial synthesis of nanoparticles and microbial screening methods for isolating a specific nanoparticle producer as well as reviews on process optimization, industrial scale production, biomolecule-nanoparticle interactions,

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magnetosomes, silver nanoparticles and their numerous applications in medicine, and the application of gold nanoparticles in developing sensitive biosensors.

Noise Filtering for Big Data Analytics

e-ISSP 2020

Cambridge Handbook of Experimental Political
Science

Springer Handbook of Automation

John Nash, Game Theory, and the Modern Quest for
a Code of Nature

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This handbook incorporates new developments in automation. It also presents a widespread and well-structured conglomeration of new emerging application areas, such as medical systems and health, transportation, security and maintenance, service, construction and retail as well as production or logistics. The handbook is not only an ideal resource for automation experts but also for people new to this expanding field. Analog circuit and system design today is more essential than ever before. With the growth of digital systems, wireless communications,

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complex industrial and automotive systems, designers are challenged to develop sophisticated analog solutions. This comprehensive source book of circuit design solutions will aid systems designers with elegant and practical design techniques that focus on common circuit design challenges. The book's in-depth application examples provide insight into circuit design and application solutions that you can apply in today's demanding designs. Covers the fundamentals of linear/analog circuit and system design to guide engineers with their

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design challenges Based on the Application Notes of Linear Technology, the foremost designer of high performance analog products, readers will gain practical insights into design techniques and practice Broad range of topics, including power management tutorials, switching regulator design, linear regulator design, data conversion, signal conditioning, and high frequency/RF design Contributors include the leading lights in analog design, Robert Dobkin, Jim Williams and Carl Nelson, among others

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Provides a bibliography of more than three thousand handbooks in various aspects of science and technology, from abrasives and band structures to yield strength and zero defects

Still the number one resource for designers in the field, the Third Edition of this classic Handbook is extensively revised and updated to reflect the enormous recent advances in electronic filter design... while maintaining the overall emphasis on practical
Handbooks and Tables in Science and

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Technology

Proceedings of ESIC 2020

Or Why We Call Our Age the Information Age

With an Introduction to the Morphological

Method for Creative Solutions and Design

Case Studies in Python

Building Electro-Optical Systems

This book presents selected, high-quality research papers from the International Conference on Electronic Systems and Intelligent Computing (ESIC 2020), held at NIT

Yupia, Arunachal Pradesh, India, on 2 – 4 March 2020.

Discussing the latest challenges and solutions in the field

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of smart computing, cyber-physical systems and intelligent technologies, it includes papers based on original theoretical, practical and experimental simulations, developments, applications, measurements, and testing. The applications and solutions featured provide valuable reference material for future product development.

The term “network” is now applied to everything from the Internet to terrorist-cell systems. But the word’s ubiquity has also made it a cliché, a concept at once recognizable yet hard to explain. Network Aesthetics, in exploring how popular culture mediates our experience with

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interconnected life, reveals the network's role as a way for people to construct and manage their world—and their view of themselves. Each chapter considers how popular media and artistic forms make sense of decentralized network metaphors and infrastructures. Patrick Jagoda first examines narratives from the 1990s and 2000s, including the novel Underworld, the film Syriana, and the television series The Wire, all of which play with network forms to promote reflection on domestic crisis and imperial decline in contemporary America. Jagoda then looks at digital media that are interactive, nonlinear, and dependent on connected audiences to show how recent

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approaches, such as those in the videogame Journey, open up space for participatory and improvisational thought. Contributing to fields as diverse as literary criticism, digital studies, media theory, and American studies, Network Aesthetics brilliantly demonstrates that, in today's world, networks are something that can not only be known, but also felt, inhabited, and, crucially, transformed.

Intuitive Analog Circuit Design outlines ways of thinking about analog circuits and systems that let you develop a feel for what a good, working analog circuit design should be. This book reflects author Marc Thompson's 30

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years of experience designing analog and power electronics circuits and teaching graduate-level analog circuit design, and is the ideal reference for anyone who needs a straightforward introduction to the subject. In this book, Dr. Thompson describes intuitive and "back-of-the-envelope" techniques for designing and analyzing analog circuits, including transistor amplifiers (CMOS, JFET, and bipolar), transistor switching, noise in analog circuits, thermal circuit design, magnetic circuit design, and control systems. The application of some simple rules of thumb and design techniques is the first step in developing an intuitive understanding of the behavior of

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complex electrical systems. Introducing analog circuit design with a minimum of mathematics, this book uses numerous real-world examples to help you make the transition to analog design. The second edition is an ideal introductory text for anyone new to the area of analog circuit design. Design examples are used throughout the text, along with end-of-chapter examples Covers real-world parasitic elements in circuit design and their effects In recent years, there has been considerable interest in highly integrated, low power, portable wireless devices. This monograph focuses on the problem of low power GFSK/GMSK modulation and presents an architectural

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approach for improved performance. Including several valuable tools for the practicing engineer.

Transmission Lines, Matching, and Crosstalk

Arc of Justice

Seeing Ourselves Through Technology

Filtering in the Time and Frequency Domains

1967: July-December

The Cybernetics Moment

Long regarded as a classic of filter theory and design, this book stands as the most comprehensive treatment of filtering techniques, devices and concepts as well as pertinent mathematical relationships. Analysis and theory

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are supplemented by detailed design curves, fully explained examples and problem and answer sections. Discussed are the derivation of filtering functions, Fourier, Laplace, Hilbert and z transforms, lowpass responses, the transformation of lowpass into other filter types, the all-pass function, the effect of losses on theoretical responses, matched filtering, methods of time-domain synthesis, and digital filtering. This book is invaluable for engineers other than those who are filter design specialists who need to know about the possibilities and limits of the filtering process in order to use filters competently and confidently in their system designs.

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This is a book about real-world design techniques for analog circuits: amplifiers, filters, injection-locked oscillators, phase-locked loops, transimpedance amplifiers, group delay correction circuits, notch filters, and spectrum regrowth in digital radio frequency (RF) transmitters, etc. The book offers practical solutions to analog and RF problems, helping the reader to achieve high-performance circuit and system design. A variety of issues are covered, such as: How to flatten group delay of filters How to use reciprocity to advantage How to neutralize a parasitic capacitance How to deepen a notch by adding only two components to the network How to demodulate a signal using the secant waveform

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and its benefit How to flatten the frequency response of a diode detector When to use a transimpedance amplifier and how to maximize its performance How to recover non-return-to-zero (NRZ) data when alternating current (AC) coupling is required Why phase noise corrupts adjacent communication channels Simple method to prevent false locking in phase-locked loops How to improve the bandwidth of amplification by using current conveyors A very simple impedance matching technique requiring only one reactive component How to use optimization Quadrature distortion and cross-rail interference This book is meant to be a handbook (or a supplemental textbook) for students and practitioners in

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the design of analog and RF circuitry with primary emphasis on practical albeit sometimes unorthodox circuit realizations. Equations and behavioral simulations result in an abundance of illustrations, following a "words and pictures" easy-to-understand approach. Teachers will find the book an important supplement to a standard analog and RF course, or it may stand alone as a textbook. Working engineers may find it useful as a handbook by bookmarking some of the step-by-step procedures, e.g., the section on simplified impedance matching or group delay flattening.

Engineering productivity in integrated circuit product design and development today is limited largely by the

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effectiveness of the CAD tools used. For those domains of product design that are highly dependent on transistor-level circuit design and optimization, such as high-speed logic and memory, mixed-signal analog-digital interfaces, RF functions, power integrated circuits, and so forth, circuit simulation is perhaps the single most important tool. As the complexity and performance of integrated electronic systems has increased with scaling of technology feature size, the capabilities and sophistication of the underlying circuit simulation tools have correspondingly increased. The absolute size of circuits requiring transistor-level simulation has increased dramatically, creating not only problems of

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computing power resources but also problems of task organization, complexity management, output representation, initial condition setup, and so forth. Also, as circuits of more complexity and mixed types of functionality are attacked with simulation, the spread between time constants or event time scales within the circuit has tended to become wider, requiring new strategies in simulators to deal with large time constant spreads.

Integrates social media, social network analysis, and data mining to provide an understanding of the potentials of social media mining.

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Analog Circuit Theory and Filter Design in the Digital World

Analog Filter Design

The SAGE Handbook of Intercultural Competence

Metal Nanoparticles in Microbiology

A Tutorial Guide to Applications and Solutions

Information technology has been used in organisational settings and for organisational purposes such as accounting, for a half century, but IT is now increasingly being used for the purposes of mediating and regulating

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complex activities in which multiple professional users are involved, such as in factories, hospitals, architectural offices, and so on. The economic importance of such coordination systems is enormous but their design often inadequate. The problem is that our understanding of the coordinative practices for which these systems are developed is deficient, leaving systems developers and software engineers to base their

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designs on commonsensical requirements analyses. The research reflected in this book addresses these very problems. It is a collection of articles which establish a conceptual foundation for the research area of Computer-Supported Cooperative Work. Handbook of Filter Synthesis, originally published in 1967 is the classic reference for continuous time filter design. The plots of filter behaviour for different designs, such

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as ripple and group delay, make this book invaluable. The discussion of how to synthesize a bandpass, bandpass, or bandstop filter from a lowpass prototype is also very useful.

This textbook is designed for graduate-level courses, and for self-study, in analog and sampled-data, including switched-capacitor, circuit theory and design for ongoing, or active electrical engineers, needing to become proficient in analog circuit design on

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a system, rather than on a device, level. After decades of experience in industry and teaching this material in academic settings, the author has extracted many of the most important and useful features of analog circuit theory and design and presented them in a manner that is easy to digest and utilize. The methodology and analysis techniques presented can be applied to areas well beyond those specifically addressed in this book. This book is

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meant to enable readers to gain a 'general knowledge' of one aspect of analog engineering (e.g., that of network theory, filter design, system theory and sampled-data signal processing). The presentation is self-contained and should be accessible to anyone with a first degree in electrical engineering. In chapters culled from popular and critically acclaimed Electromagnetic Compatibility Handbook, Electromagnetic

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Shielding provides a tightly focused, convenient, and affordable reference for those interested primarily in this subset of topics. Author Kenneth L. Kaiser demystifies shielding and explains the source and limitations of the approximations, guidelines, models, and rules-of-thumb used in this field. The material is presented in a unique question-and-answer format that gets straight to the heart of each topic. The book includes numerous examples and

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uses Mathcad to generate all of the figures and many solutions to equations. In many cases, the entire Mathcad program is provided.

The Postmodern Condition

An Anthology

*Theoretical, Empirical, and Applied
Linguistic Perspectives*

*Portable Electronics: World Class
Designs*

*Cooperative Work and Coordinative
Practices*

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Analog Circuit Design

Modeling Creativity (doctoral thesis, 2013) explores how creativity can be represented using computational approaches. Our aim is to construct computer models that exhibit creativity in an artistic context, that is, that are capable of generating or evaluating an artwork (visual or linguistic), an interesting new idea, a subjective opinion. The research was conducted in 2008–2012 at the Computational Linguistics Research Group (CLiPS, University of Antwerp) under the supervision of Prof. Walter Daelemans. Prior research was also conducted at the

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Experimental Media Research Group (EMRG, St. Lucas University College of Art & Design Antwerp) under the supervision of Lucas Nijs. Modeling Creativity examines creativity in a number of different perspectives: from its origins in nature, which is essentially blind, to humans and machines, and from generating creative ideas to evaluating and learning their novelty and usefulness. We will use a hands-on approach with case studies and examples in the Python programming language.

Handbook of Filter Synthesis Wiley-Interscience

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In chapters culled from the popular and critically acclaimed Electromagnetic Compatibility Handbook, Transmission Lines, Matching, and Crosstalk provides a tightly focused, convenient, and affordable reference for those interested primarily in this subset of topics. Author Kenneth L. Kaiser demystifies transmission lines, matching, and crosstalk and explains the source and limitations of the approximations, guidelines, models, and rules-of-thumb used in this field. The material is presented in a unique question-and-answer format that gets straight to the heart of each topic. The book

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includes numerous examples and uses Mathcad to generate all of the figures and many solutions to equations. In many cases, the entire Mathcad program is provided.

Building Electro-Optical Systems In the newly revised third edition of Building Electro-Optical Systems: Making It All Work, renowned Dr. Philip C. D. Hobbs delivers a birds-eye view of all the topics you'll need to understand for successful optical instrument design and construction. The author draws on his own work as an applied physicist and consultant with over a decade of experience in designing and constructing electro-optical

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systems from beginning to end. The book's topics are chosen to allow readers in a variety of disciplines and fields to quickly and confidently decide whether a given device or technique is appropriate for their needs. Using accessible prose and intuitive organization, *Building Electro-Optical Systems* remains one of the most practical and solution-oriented resources available to graduate students and professionals. The newest edition includes comprehensive revisions that reflect progress in the field of electro-optical instrument design and construction since the second edition was

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published. It also offers approximately 350 illustrations for visually oriented learners. Readers will also enjoy: A thorough introduction to basic optical calculations, including wave propagation, detection, coherent detection, and interferometers Practical discussions of sources and illuminators, including radiometry, continuum sources, incoherent line sources, lasers, laser noise, and diode laser coherence control Explorations of optical detection, including photodetection in semiconductors and signal-to-noise ratios Full treatments of lenses, prisms, and mirrors, as well as

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coatings, filters, and surface finishes, and polarization Perfect for graduate students in physics, electrical engineering, optics, and optical engineering, Building Electro-Optical Systems is also an ideal resource for professional designers working in optics, electro-optics, analog electronics, and photonics.

LC, Active, and Digital Filters

Microwave and Wireless Synthesizers

Practical Analog and RF Electronics

A Saga of Race, Civil Rights, and Murder in the Jazz Age

An Introduction

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Network Aesthetics

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Selfies, blogs and lifelogging devices help us understand ourselves, building on long histories of written, visual and quantitative modes of self-representations. This book uses examples to explore the balance between using technology to see ourselves and allowing our machines to tell us who we are.

First Published in 1996. Routledge is an imprint of Taylor & Francis, an informa company.

Ideal for advanced undergraduate and first-year graduate courses in analog filter design and signal

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processing, Design of Analog Filters integrates theory and practice in order to provide a modern and practical "how-to" approach to design.

The domain of Communication Disorders has grown exponentially in the last two decades and has come to encompass much more than audiology, speech impediments and early language impairment. The realization that most developmental and learning disorders are language-based or language-related has brought insights from theoretical and empirical linguistics and its clinical applications to the forefront of Communication Disorders science. The current

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handbook takes an integrated psycholinguistic, neurolinguistic, and sociolinguistic perspective on Communication Disorders by targeting the interface between language and cognition as the context for understanding disrupted abilities and behaviors and providing solutions for treatment and therapy. Researchers and practitioners will be able to find in this handbook state-of-the-art information on typical and atypical development of language and communication (dis)abilities across the human lifespan from infancy to the aging brain, covering all major clinical disorders and conditions in various social and

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communicative contexts, such as spoken and written language and discourse, literacy issues, bilingualism, and socio-economic status.

How We Use Selfies, Blogs and Wearable Devices to See and Shape Ourselves

A Report on Knowledge

Contributions to the Conceptual Foundations of Computer-Supported Cooperative Work (CSCW)

Designer's Handbook of Integrated Circuits

Automated Calibration of Modulated Frequency Synthesizers

Making It All Work

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This volume provides the first comprehensive overview of how political scientists have used experiments to transform their field of study.

Unlike most books on filters, Analog and Digital Filter Design does not start from a position of mathematical complexity. It is written to show readers how to design effective and working electronic filters. The background information and equations from the first edition have been moved into an appendix to allow easier flow of the text while still providing the

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information for those who are interested. The addition of questions at the end of each chapter as well as electronic simulation tools has allowed for a more practical, user-friendly text. Provides a practical design guide to both analog and digital electronic filters Includes electronic simulation tools Keeps heavy mathematics to a minimum This book explains how to perform data de-noising, in large scale, with a satisfactory level of accuracy. Three main issues are considered. Firstly, how to

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eliminate the error propagation from one stage to next stages while developing a filtered model. Secondly, how to maintain the positional importance of data whilst purifying it. Finally, preservation of memory in the data is crucial to extract smart data from noisy big data. If, after the application of any form of smoothing or filtering, the memory of the corresponding data changes heavily, then the final data may lose some important information. This may lead to wrong or erroneous conclusions. But, when

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anticipating any loss of information due to smoothing or filtering, one cannot avoid the process of denoising as on the other hand any kind of analysis of big data in the presence of noise can be misleading. So, the entire process demands very careful execution with efficient and smart models in order to effectively deal with it.

Containing chapters by some of the world's leading experts and scholars on the subject, this book provides a broad context for intercultural competence.

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Including the latest research on intercultural models and theories, it presents guidance on assessing intercultural competence through the exploration of key assessment principles.

Social Media Mining

Proceedings of the International e-Conference on Intelligent Systems and Signal Processing

Electronic Filter Design Handbook

Three Decades of Peace Education around the World

Analog and Digital Filter Design

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Electronic Systems and Intelligent
Computing

Choice Outstanding Academic Title Cybernetics—the science of communication and control as it applies to machines and to humans—originates from efforts during World War II to build automatic antiaircraft systems. Following the war, this science extended beyond military needs to examine all systems that rely on information and feedback, from the level of the cell to that of society. In The Cybernetics Moment, Ronald R. Kline, a senior historian of technology, examines the intellectual and cultural history of cybernetics and information theory, whose language of “information,” “feedback,” and “control” transformed the idiom of the sciences,

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hastened the development of information technologies, and laid the conceptual foundation for what we now call the Information Age. Kline argues that, for about twenty years after 1950, the growth of cybernetics and information theory and ever-more-powerful computers produced a utopian information narrative—an enthusiasm for information science that influenced natural scientists, social scientists, engineers, humanists, policymakers, public intellectuals, and journalists, all of whom struggled to come to grips with new relationships between humans and intelligent machines. Kline traces the relationship between the invention of computers and communication systems and the rise, decline, and transformation of cybernetics by analyzing the lives and

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***work of such notables as Norbert Wiener, Claude Shannon, Warren McCulloch, Margaret Mead, Gregory Bateson, and Herbert Simon. Ultimately, he reveals the crucial role played by the cybernetics moment—when cybernetics and information theory were seen as universal sciences—in setting the stage for our current preoccupation with information technologies. "Nowhere in the burgeoning secondary literature on cybernetics in the last two decades is there a concise history of cybernetics, the science of communication and control that helped usher in the current information age in America. Nowhere, that is, until now . . . Readers have in The Cybernetics Moment the first authoritative history of American cybernetics."*—Information & Culture "[A]n**

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***extremely interesting and stimulating history of the concepts of cybernetics . . . This is a book for everyone to read, relish, and think about."*—Choice "As a whole, the book presents a comprehensive in-depth retrospective analysis of the contribution of the American scientific school to the making, formation, and development of cybernetics and information theory. An unquestionable advantage of the book is the skillful use of numerous bibliographic sources by the author that reflect the scientific, engineering, and social significance of the questions being considered, competition of ideas and developments, and also interrelations between scientists."—Cybernetics and System Analysis "Dr. Kline is perhaps uniquely situated to take on so large and**

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complicated [a] topic as cybernetics . . . Readers unfamiliar with Wiener and his work are well advised to start with this well-written and thorough book. Those who are already familiar will still find much that is new and informative in the thorough research and reasoned interpretations."—IEEE History Center "The most comprehensive intellectual history of cybernetics in Cold War America."—Journal of American History "The book will be most valuable as historical background for the large number of disciplines that were involved in the cybernetics moment: computer science, communications engineering, information theory, and the social sciences of sociology and anthropology."—IEEE Technology and Society Magazine "Ronald Kline's chronicle of

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cybernetics certainly does what an excellent history of science should do. It takes you there—to the golden age of a new, exciting field. You will almost smell that cigar.”—Second-Order Cybernetics "Kline’s The Cybernetics Moment tracks the rise and fall of the cybernetics movement in more detail than any historical account to date.”—Los Angeles Review of Books

This book provides insights into the Third International Conference on Intelligent Systems and Signal Processing (eISSP 2020) held By Electronics & Communication Engineering Department of G H Patel College of Engineering & Technology, Gujarat, India, during 28–30 December 2020. The book comprises contributions by the research scholars and academicians covering the

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topics in signal processing and communication engineering, applied electronics and emerging technologies, Internet of Things (IoT), robotics, machine learning, deep learning and artificial intelligence. The main emphasis of the book is on dissemination of information, experience and research results on the current topics of interest through in-depth discussions and contribution of researchers from all over world. The book is useful for research community, academicians, industrialists and postgraduate students across the globe.

Millions have seen the movie and thousands have read the book but few have fully appreciated the mathematics developed by John Nash's beautiful mind. Today Nash's

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beautiful math has become a universal language for research in the social sciences and has infiltrated the realms of evolutionary biology, neuroscience, and even quantum physics. John Nash won the 1994 Nobel Prize in economics for pioneering research published in the 1950s on a new branch of mathematics known as game theory. At the time of Nash's early work, game theory was briefly popular among some mathematicians and Cold War analysts. But it remained obscure until the 1970s when evolutionary biologists began applying it to their work. In the 1980s economists began to embrace game theory. Since then it has found an ever expanding repertoire of applications among a wide range of scientific disciplines. Today neuroscientists peer into

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game players' brains, anthropologists play games with people from primitive cultures, biologists use games to explain the evolution of human language, and mathematicians exploit games to better understand social networks. A common thread connecting much of this research is its relevance to the ancient quest for a science of human social behavior, or a Code of Nature, in the spirit of the fictional science of psychohistory described in the famous Foundation novels by the late Isaac Asimov. In A Beautiful Math, acclaimed science writer Tom Siegfried describes how game theory links the life sciences, social sciences, and physical sciences in a way that may bring Asimov's dream closer to reality. All the design and development inspiration and direction

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an electronics engineer needs in one blockbuster book! John Donovan, Editor-in Chief, Portable Design has selected the very best electronic design material from the Newnes portfolio and has compiled it into this volume. The result is a book covering the gamut of electronic design from design fundamentals to low-power approaches with a strong pragmatic emphasis. In addition to specific design techniques and practices, this book also discusses various approaches to solving electronic design problems and how to successfully apply theory to actual design tasks. The material has been selected for its timelessness as well as for its relevance to contemporary electronic design issues. Contents: Chapter 1 System Resource Partitioning and

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***Code Optimization Chapter 2 Low Power Design
Techniques, Design Methodology, and Tools Chapter 3
System-Level Approach to Energy Conservation Chapter
4 Radio Communication Basics Chapter 5 Applications
and Technologies Chapter 6 RF Design Tools Chapter 7
On Memory Systems and Their Design Chapter 8 Storage
in Mobile Consumer Electronics Devices Chapter 9
Analog Low-Pass Filters Chapter 10 Class A Amplifiers
Chapter 11 MPEG-4 and H.264 Chapter 12 Liquid Crystal
Displays *Hand-picked content selected by John
Donovan, Editor-in Chief, Portable Design *Proven best
design practices for low-power, storage, and streamlined
development *Case histories and design examples get
you off and running on your current project***

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The Designer's Guide to Spice and Spectre®

Electromagnetic Shielding

Intuitive Analog Circuit Design

A Beautiful Math

Theory and Design

Handbook of Communication Disorders

In this book it explores science and technology, makes connections between these epistemic, cultural, and political trends, and develops profound insights into the nature of our postmodernity.

An electrifying story of the sensational murder trial that divided a city and ignited the civil rights struggle In 1925, Detroit was a smoky swirl of jazz and speakeasies, assembly lines and fistfights.

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The advent of automobiles had brought workers from around the globe to compete for manufacturing jobs, and tensions often flared with the KKK in ascendance and violence rising. Ossian Sweet, a proud Negro doctor-grandson of a slave-had made the long climb from the ghetto to a home of his own in a previously all-white neighborhood. Yet just after his arrival, a mob gathered outside his house; suddenly, shots rang out: Sweet, or one of his defenders, had accidentally killed one of the whites threatening their lives and homes. And so it began-a chain of events that brought America's greatest attorney, Clarence Darrow, into the fray and transformed Sweet into a controversial symbol of equality. Historian Kevin Boyle weaves the police investigation and courtroom drama of Sweet's murder trial into an

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unforgettable tapestry of narrative history that documents the volatile America of the 1920s and movingly re-creates the Sweet family's journey from slavery through the Great Migration to the middle class. Ossian Sweet's story, so richly and poignantly captured here, is an epic tale of one man trapped by the battles of his era's changing times. Arc of Justice is the winner of the 2004 National Book Award for Nonfiction.

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