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ELECTRICAL CIRCUIT ANALYSIS Farrar, Straus and Giroux

A textbook for students with limited background in mathematics and computer coding, emphasizing computer tutorials that guide readers in producing models of neural behavior. This introductory text teaches students to understand, simulate, and analyze the complex behaviors of individual neurons and brain circuits. It is built around computer tutorials that guide students in producing models of neural behavior, with the associated Matlab code freely available online. From these models students learn how individual neurons function and how, when connected, neurons cooperate in a circuit. The book demonstrates through simulated models how oscillations, multistability, post-stimulus rebounds, and chaos can arise within either single neurons or circuits, and it explores their roles in the brain. The book first presents essential background in neuroscience, physics, mathematics, and Matlab, with explanations illustrated by many example problems. Subsequent chapters cover the neuron and spike production; single spike trains and the underlying cognitive processes; conductance-based models; the simulation of synaptic connections; firing-rate models of large-scale circuit operation; dynamical systems and their components; synaptic plasticity; and techniques for analysis of neuron population datasets, including principal components analysis, hidden Markov modeling, and Bayesian decoding. Accessible to undergraduates in life sciences with limited background in mathematics and computer coding, the book can be used in a "flipped" or "inverted" teaching approach, with class time devoted to hands-on work on the computer tutorials. It can also be a resource for graduate students in the life sciences who wish to gain computing skills and a deeper knowledge of neural function and neural circuits.

McGraw-Hill Companies

Genetic algorithms are playing an increasingly important role in studies of complex adaptive systems, ranging from adaptive agents in economic theory to the use of

machine learning techniques in the design of complex devices such as aircraft turbines and integrated circuits. Adaptation in Natural and Artificial Systems is the book that initiated this field of study, presenting the theoretical foundations and exploring applications. In its most familiar form, adaptation is a biological process, whereby organisms evolve by rearranging genetic material to survive in environments confronting them. In this now classic work, Holland presents a mathematical model that allows for the nonlinearity of such complex interactions. He demonstrates the model's universality by applying it to economics, physiological psychology, game theory, and artificial intelligence and then outlines the way in which this approach modifies the traditional views of mathematical genetics. Initially applying his concepts to simply defined artificial systems with limited numbers of parameters, Holland goes on to explore their use in the study of a wide range of complex, naturally occurring processes, concentrating on systems having multiple factors that interact in nonlinear ways. Along the way he accounts for major effects of coadaptation and coevolution: the emergence of building blocks, or schemata, that are recombined and passed on to succeeding generations to provide, innovations and improvements.

Computational Imaging John Wiley & Sons

NEW YORK TIMES BEST SELLER • A TODAY SHOW #ReadWithJenna BOOK CLUB PICK! • Finalist for the WOMEN'S PRIZE Yaa Gyasi's stunning follow-up to her acclaimed national best seller Homegoing is a powerful, raw, intimate, deeply layered novel about a Ghanaian family in Alabama. Gifty is a sixth-year PhD candidate in neuroscience at the Stanford University School of Medicine studying reward-seeking behavior in mice and the neural circuits of depression and addiction. Her brother, Nana, was a gifted high school athlete who died of a heroin overdose after an ankle injury left him hooked on OxyContin. Her suicidal mother is living in her bed. Gifty is determined to discover the scientific basis for the suffering she sees all around her. But even as she turns to the hard sciences to unlock the mystery of her family's loss, she finds herself hungering for her childhood faith and grappling with the evangelical church in which she was raised, whose promise of salvation remains as tantalizing as it is elusive. Transcendent Kingdom is a deeply moving portrait of a family of Ghanaian immigrants ravaged by depression and addiction and grief—a novel about faith, science, religion, love. Exquisitely written, emotionally searing, this is an exceptionally powerful follow-up to Gyasi's phenomenal debut.

Circuits Vintage

Designed for use in a one or two-semester Introductory Circuit Analysis or Circuit Theory Course taught in Electrical or Computer Engineering Departments. Electric Circuits 9/e is the most widely used introductory circuits textbook of the past 25 years. As this book has evolved

over the years to meet the changing learning styles of students, importantly, the underlying teaching approaches and philosophies remain unchanged. The goals are: - To build an understanding of concepts and ideas explicitly in terms of previous learning - To emphasize the relationship between conceptual understanding and problem solving approaches - To provide students with a strong foundation of engineering practices.

Transcendent Kingdom No Starch Press

Illustrated throughout in full colour, this pioneering text is the only book you need for an introduction to network science.

Radio-Frequency and Microwave Communication Circuits McGraw Hill Professional
Sample problems and their solutions accompany explanations of aspects of electricity, such as electric circuits, alternating current, and electromagnetism

Electronic Devices and Circuit Theory Cengage Learning

The combined three volumes of these texts cover traditional linear circuit analysis topics - both concepts and computation - including the use of available software for problem solution where necessary. The text balances emphasis on concepts and calculation so students learn the basic principles and properties that govern circuits behaviour, while they gain a firm understanding of how to solve computational techniques they will face in the world of professional engineers.

Designing Analog Chips Simon and Schuster

"Fans of R.J. Palacio's Wonder will appreciate this feel-good story of friendship and unconventional smarts." —Kirkus Reviews Ally has been smart enough to fool a lot of smart people. Every time she lands in a new school, she is able to hide her inability to read by creating clever yet disruptive distractions. She is afraid to ask for help; after all, how can you cure dumb? However, her newest teacher Mr. Daniels sees the bright, creative kid underneath the trouble maker. With his help, Ally learns not to be so hard on herself and that dyslexia is nothing to be ashamed of. As her confidence grows, Ally feels free to be herself and the world starts opening up with possibilities. She discovers that there's a lot more to her—and to everyone—than a label, and that great minds don't always think alike. The author of the beloved One for the Murphys gives readers an emotionally-charged, uplifting novel that will speak to anyone who's ever thought there was something wrong with them because they didn't fit in. This paperback edition includes The Sketchbook of Impossible Things and discussion questions. A New York Times Bestseller! * "Unforgettable and uplifting." —School Library Connection, starred review * "Offering hope to those who struggle academically and demonstrating that a disability does not equal stupidity, this is as unique as its heroine." —Booklist, starred review * "Mullaly Hunt again paints a nuanced portrayal of a sensitive, smart girl struggling with circumstances beyond her control." —School Library Journal, starred review

The Circuit Virtualbookworm Publishing

Circuit Analysis For Dummies John Wiley & Sons

Outcasts of Empire Vintage

Living in a "perfect" world without social ills, a boy approaches the time when he will receive a life assignment from the Elders, but his selection leads him to a mysterious man known as the Giver, who reveals the dark secrets behind the utopian facade.

Adaptation in Natural and Artificial Systems McGraw Hill Professional
Introduction : empires and indigenous peoples, global transformation and the limits of international society -- From wet diplomacy to scorched earth : the Taiwan expedition, the Guardline and the Wushe rebellion -- The long dur é e and the short circuit : gender, language and territory in the making of indigenous Taiwan -- Tangled up in red : textiles, trading posts and ethnic bifurcation in Taiwan -- The geobodies within a geobody : the visual economy of race-making and indigeneity

Fundamentals of Electric Circuits Univ of California Press

The book, now in its Second Edition, presents the concepts of electrical circuits with easy-to-understand approach based on classroom experience of the authors. It deals with the fundamentals of electric circuits, their components and the mathematical tools used to represent and analyze electrical circuits. This text guides students to analyze and build simple electric circuits. The presentation is very simple to facilitate self-study to the students. A better way to understand the various aspects of electrical circuits is to solve many problems. Keeping this in mind, a large number of solved and unsolved problems have been included. The chapters are arranged logically in a proper sequence so that successive topics build upon earlier topics. Each chapter is supported with necessary illustrations. It serves as a textbook for undergraduate engineering students of multiple disciplines for a course on 'circuit theory' or 'electrical circuit analysis' offered by major technical universities across the country. SALIENT FEATURES • Difficult topics such as transients, network theorems, two-port networks are presented in a simple manner with numerous examples. • Short questions with answers are provided at the end of every chapter to help the students to understand the basic laws and theorems. • Annotations are given at appropriate places to ensure that the students get the gist of the subject matter clearly. NEW TO THE SECOND EDITION • Incorporates several new solved examples for better understanding of the subject • Includes objective type questions with answers at the end of the chapters • Provides an appendix on 'Laplace Transforms'

Making College Work John Wiley & Sons

A fascinating examination of technological utopianism and its complicated consequences. In The Charisma Machine, Morgan Ames chronicles the life and legacy of the One Laptop per Child project and explains why—despite its failures—the same utopian visions that inspired OLPC still motivate other projects trying to use technology to “disrupt” education and development. Announced in 2005 by MIT Media Lab cofounder Nicholas Negroponte, One Laptop per Child promised to transform the lives of children across the Global South with a small, sturdy, and cheap laptop computer, powered by a hand crank. In reality, the project fell short in many ways—starting with the hand crank, which never materialized. Yet the project remained charismatic to many who were captivated by its claims of access to educational opportunities previously out of reach. Behind its promises, OLPC, like many technology projects that make similarly grand claims, had a fundamentally flawed vision of who the computer was made for and what role technology should play in learning. Drawing on fifty years of history and a seven-month study of a model OLPC project in Paraguay, Ames reveals that the laptops were not only frustrating to use, easy to break, and hard to repair, they were designed for “technically precocious boys”—idealized younger versions of the developers

themselves—rather than the children who were actually using them. The Charisma Machine offers a cautionary tale about the allure of technology hype and the problems that result when utopian dreams drive technology development.

Laboratory Manual for Introductory Circuit Analysis Prentice Hall

Here's the sure cure for CIRCUIT PARALYSIS! Need to learn circuit analysis but experiencing some resistance in your brain waves? No stress! Circuit Analysis Demystified will give you the jolt you need to understand this complex subject--without getting your circuits crossed. In the first part of the book, you'll learn the fundamentals such as voltage and current theorems, Thevenin and Norton's theorems, op amp circuits, capacitance and inductance, and phasor analysis of circuits. Then you'll move on to more advanced topics including Laplace transforms, three-phase circuits, filters, Bode plots, and characterization of circuit stability. Featuring end-of-chapter quizzes and a final exam, this book will have you in a steady state when it comes to circuit analysis in no time at all. This fast and easy guide offers: Numerous figures to illustrate key concepts Sample equations with worked solutions Coverage of Kirchhoff's laws, the superposition theorem, Millman's theorem, and delta-wye transformations Quizzes at the end of each chapter to reinforce learning A time-saving approach to performing better on an exam or at work Simple enough for a beginner, but challenging enough for an advanced student, Circuit Analysis Demystified will transform you into a master of this essential engineering subject.

Network Science Prentice Hall

A comprehensive introduction to CMOS and bipolar analog IC design. The book presumes no prior knowledge of linear design, making it comprehensible to engineers with a non-analog back-ground. The emphasis is on practical design, covering the entire field with hundreds of examples to explain the choices. Concepts are presented following the history of their discovery. Content: 1. Devices Semiconductors, The Bipolar Transistor, The Integrated Circuit, Integrated NPN Transistors, The Case of the Lateral PNP Transistor, CMOS Transistors, The Substrate PNP Transistor, Diodes, Zener Diodes, Resistors, Capacitors, CMOS vs. Bipolar; 2. Simulation, DC Analysis, AC Analysis, Transient Analysis, Variations, Models, Diode Model, Bipolar Transistor Model, Model for the Lateral PNP Transistor, MOS Transistor Models, Resistor Models, Models for Capacitors; 3. Current Mirrors; 4. Differential Pairs; 5. Current Sources; 6. Time Out: Analog Measures, dB, RMS, Noise, Fourier Analysis, Distortion, Frequency Compensation; 7. Bandgap References; 8. Op Amps; 9. Comparators; 10. Transimpedance Amplifiers; 11. Timers and Oscillators; 12. Phase-Locked Loops; 13. Filters; 14. Power, Linear Regulators, Low Drop-Out Regulators, Switching Regulators, Linear Power Amplifiers, Switching Power Amplifiers; 15. A to D and D to A, The Delta-Sigma Converter; 16. Odds and Ends, Gilbert Cell, Multipliers, Peak Detectors, Rectifiers and Averaging Circuits, Thermometers, Zero-Crossing Detectors; 17. Layout.

The Analysis and Design of Linear Circuits Penguin

More than 60 recipes for making all the delectable treats you'll need for an afternoon tea party, including scrumptious scones, dainty tea sandwiches, savory appetizers, tea time sweets and the perfect pot of tea. Fifteen creative theme party ideas with suggestions for: invitations, games and activities, decorations, menu choices and party favors. Get out those teapots and create fond memories of lively conversation and laughter and fun.

An Introductory Course in Computational Neuroscience McGraw-Hill Companies
A comprehensive and up-to-date textbook and reference for computational imaging, which combines vision, graphics, signal processing, and optics. Computational imaging involves the joint design of imaging hardware and computer algorithms to create novel imaging systems with unprecedented capabilities. In recent years such capabilities include cameras that operate at a trillion frames per second, microscopes that can see small viruses long thought to be optically irresolvable, and telescopes that capture images of black holes. This text offers a comprehensive and up-to-date introduction to this rapidly growing field, a convergence of vision, graphics, signal processing, and optics. It can be used as an instructional resource for computer imaging courses and as a reference for professionals. It covers the fundamentals of the field, current research and applications, and light transport techniques. The text first presents an imaging toolkit, including optics, image sensors, and illumination, and a computational toolkit, introducing modeling, mathematical tools, model-based inversion, data-driven inversion techniques, and hybrid inversion techniques. It then examines different modalities of light, focusing on the plenoptic function, which describes degrees of freedom of a light ray. Finally, the text outlines light transport techniques, describing imaging systems that obtain micron-scale 3D shape or optimize for noise-free imaging, optical computing, and non-line-of-sight imaging. Throughout, it discusses the use of computational imaging methods in a range of application areas, including smart phone photography, autonomous driving, and medical imaging. End-of-chapter exercises help put the material in context.

Basic Electric Circuit Theory Cambridge University Press

The primary objectives of this revision of the laboratory manual include insuring that the procedures are clear, that the results clearly support the theory, and that the laboratory experience results in a level of confidence in the use of the testing equipment commonly found in the industrial environment. For those curriculums devoted to a dc analysis one semester and an ac analysis the following semester there are more experiments for each subject than can be covered in a single semester. The result is the opportunity to pick and choose those experiments that are more closely related to the curriculum of the college or university. All of the experiments have been run and tested during the 13 editions of the text with changes made as needed. The result is a set of laboratory experiments that should have each step clearly defined and results that closely match the theoretical solutions. Two experiments were added to the ac section to provide the opportunity to make measurements that were not included in the original set. Developed by Professor David Krispinsky of Rochester Institute of Technology they match the same format of the current laboratory experiments and cover the material clearly and concisely. All the experiments are designed to be completed in a two or three hour laboratory session. In most cases, the write-up is work to be completed between laboratory sessions. Most institutions begin the laboratory session with a brief introduction to the theory to be substantiated and the use of any new equipment to be used in the session.

Electric Circuits McGraw Hill Professional

This is the only book on the market that has been conceived and deliberately written as a one-semester text on basic electric circuit theory. As such, this book employs a novel approach to the exposition of the material in which phasors and ac steady-state analysis are introduced at the beginning. This allows one to use phasors in the discussion of transients excited by ac sources, which makes the presentation of transients more comprehensive and meaningful. Furthermore, the machinery of phasors paves the road to the introduction of transfer functions, which are then used in the analysis of transients and the discussion of Bode plots and filters. Another salient feature of the text is the consolidation into one chapter of the material concerned with dependent sources and operational amplifiers. Dependent sources are introduced as linear models for transistors on the basis of small signal analysis. In the text, PSpice simulations are prominently featured to reinforce the basic material and understanding of circuit analysis.

Key Features

- * Designed as a comprehensive one-semester text in basic circuit theory
- * Features early introduction of phasors and ac steady-state analysis
- * Covers the application of phasors and ac steady-state analysis
- * Consolidates the material on dependent sources and operational amplifiers
- * Places emphasis on connections between circuit theory and other areas in electrical engineering
- * Includes PSpice tutorials and examples
- * Introduces the design of active filters
- * Includes problems at the end of every chapter
- * Priced well below similar books designed for year-long courses

The Publishers' Trade List Annual NTS Press

"Poignant....important and illuminating."—The New York Times Book Review

"Groundbreaking."—Bryan Stevenson, New York Times bestselling author of Just Mercy

From one of the world's leading experts on unconscious racial bias come stories, science, and strategies to address one of the central controversies of our time: How do we talk about bias? How do we address racial disparities and inequities? What role do our institutions play in creating, maintaining, and magnifying those inequities? What role do we play? With a perspective that is at once scientific, investigative, and informed by personal experience, Dr. Jennifer Eberhardt offers us the language and courage we need to face one of the biggest and most troubling issues of our time. She exposes racial bias at all levels of society—in our neighborhoods, schools, workplaces, and criminal justice system. Yet she also offers us tools to address it. Eberhardt shows us how we can be vulnerable to bias but not doomed to live under its grip. Racial bias is a problem that we all have a role to play in solving.