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[Semiconductor Devices](#) Springer

Use color to improve your storytelling, deliver critical emotional cues, and add impact to you videos. This book shows you how to analyze color correction problems and solve them- whatever NLE or plugin you use. Experienced editors and colorists in their own right, the authors also include the wisdom of top colorists, directors of photography, and color scientists to deliver this insightful and authoritative presentation of the theory and practice of color correction. The book provides technical insight into how to effectively color correct your video, also delving into how color can impact storytelling and deliver critical emotional cues. The new edition also includes 2 new "Quickstart Tutorials", a new chapter on how color impacts storytelling, information on the impact HD has had on the correcting process, and updated application specifications. The companion DVD features new and more robust tutorial media.

[A Modular Three-dimensional Finite-difference Ground-water Flow Model](#)
Springer Nature

This book presents systematic scientific appraisal, classification, genesis and viable technologies for reclamation and management of salt-affected soils and marginal quality waters across India and several other countries. Nature, solubility and geo-chemical mobility of salts have been provided as basis for the development of alkali and saline soils and groundwaters under specific agro-hydro-ecological regions. Chemical amendment (gypsum) based reclamation technology of alkali soils and related pre and post-reclamation water, nutrient and crop management interventions, including re-sodification issues have been

comprehensively addressed. Features and operational guidelines of surface, subsurface, vertical and bio-drainage systems have been thoroughly discussed; likewise, amelioration of irrigation induced saline soils in inland and coastal regions and preventive measures for control of salinity and waterlogging along with environmental trade-offs. Practical approaches for amelioration and judicious use of saline, alkali, high SAR- saline and waste waters have been synthesized for different cropping and agro- forestry systems. Emerging issues on use of industrial by-products as amendments for alkali soils, physiological aspects of salt resistance, anatomical and biochemical mechanism of submergence tolerance, specific ion effects of poor quality waters, crop diversification, groundwater recharge, rejuvenation of tsunami affected coastal soils, safety against occurrence of poisonous gas in tube well pits, paddy straw burning and others have been adequately deliberated upon. Combining scientific principles with field experiences, the book is expected to serve as a useful knowledge base for research workers, teachers and students of soil science, agronomy, plant breeding, forestry, irrigation engineering, extension workers, environmentalists and planners associated with reclamation and management of salt affected soils and waters on sustainable basis in developing and developed countries.

[Cryocoolers 12](#) BRILL

An essential resource for both students and teachers alike, this AC Electrical Circuits Workbook contains over 500 problems spread across ten chapters. Each chapter begins with an overview of the relevant theory and includes exercises focused on specific kinds of circuit problems such as Analysis, Design, Challenge and Computer Simulation. An Appendix offers the answers to the odd-numbered Analysis and Design exercises. Chapter topics include series, parallel, and series-parallel RLC circuits; analysis techniques such as superposition, source conversions, mesh analysis, nodal analysis, Thévenin's and Norton's theorems, and delta-wye conversions; plus series and parallel resonance, dependent sources, polyphase power, magnetic circuits, and more. This is the print version of the on-line OER.

[Livestock Water Quality](#) NC State University

A comprehensive textbook on nanoelectronics covering the underlying physics, nanostructures, nanomaterials and nanodevices.

[Water Reuse](#) Prentice Hall

Fundamentals of Microwave and RF Design enables mastery of the essential concepts required to cross the barriers to a successful career in microwave and RF design. Extensive treatment of scattering parameters, that naturally describe power flow, and of Smith-chart-based design procedures prepare the student for success. The emphasis is on design at the module level and on covering the whole range of microwave functions

available. The orientation is towards using microstrip transmission line technologies and on gaining essential mathematical, graphical and design skills for module design proficiency. This book is derived from a multi volume comprehensive book series, Microwave and RF Design, Volumes 1-5, with the emphasis in this book being on presenting the fundamental materials required to gain entry to RF and microwave design. This book closely parallels the companion series that can be consulted for in-depth analysis with referencing of the book series being familiar and welcoming. Key Features * A companion volume to a comprehensive series on microwave and RF design * Open access ebook editions are hosted by NC State University Libraries at <https://repository.lib.ncsu.edu/handle/1840.20/36776> * 59 worked examples * An average of 24 exercises per chapter * Answers to selected exercises * Emphasis on module-level design using microstrip technologies * Extensive treatment of design using Smith charts * A parallel companion book series provides a detailed reference resource

Hydrogeology Laboratory Manual Newnes

The development and application of cryocoolers - small cryogenic refrigerators designed to provide localized cooling at cryogenic temperatures - is expanding at an ever increasing rate. Small, highly portable cryocoolers are serving growing numbers of advanced infrared sensor and viewing systems; others provide cooling for medical applications, laboratory experiments, vacuum cryopumps, and advanced radio-frequency devices. Long-life spacecraft cooling for space infrared and gamma-ray instruments is a growing field, as is serving the expanding high-temperature superconductor community, and the emerging field of cryogenic cooling of computer systems. Composed of papers written by leading engineers and scientists in the field, Cryocoolers 12 reports the most recent advances in cryocooler development, contains extensive performance test results and comparisons, and relates the latest experience in integrating cryocoolers into advanced applications. The contributions contained in Cryocoolers 12 will be a valuable asset for researchers, product designers, and development engineers associated with the design and application of cryocoolers to the ever expanding number of military, space, semiconductor, medical, computing, and high-temperature superconductor cryogenic applications.

Practical Gamma-Ray Spectrometry Taylor & Francis

This lab manual features a hands-on approach to learning about the physical and chemical processes that govern groundwater flow and contaminant movement in the subsurface. It will aid users in developing a deeper understanding and appreciation for the science and art of hydrogeology. Twenty-one lab exercises provide practical material that explore regional aquifer studies, slug tests, and the use of tracers to determine aquifer and contaminant parameters and modeling retardation, biodegradation, and aquifer heterogeneity, and much more. For individuals interested in the study of hydrogeology.

Sound Reproduction Artech House

This report on Water Quality and Agriculture examines the linkages between agriculture and water quality. It discusses the overall trends and outlook for agriculture and water quality in OECD countries; describes recent actions by policy makers to address water quality issues in agriculture; and provides a set of recommendations for countries to meet the challenge of improving agricultural water quality.

Groundwater Quality IWA Publishing

This is the first volume on adsorption using green adsorbents and is written by international contributors who are the leading experts in the adsorption field. The first volume provides an overview of fundamentals and design of adsorption processes. For people who are new to the field, the book starts by two overview chapters presenting the principles and properties of wastewater treatment and adsorption processes. The book also provides a comprehensive source of knowledge

on acid-base properties of biosorbents. It discusses fractal-like kinetic models for fluid-solid adsorption, reports on the chemical characterization of oxidized activated carbons for metal removal, and the use of magnetic biosorbents in water treatment. Furthermore, the thermodynamic properties of metals adsorption by green adsorbents, and biosorption of polycyclic aromatic hydrocarbons and organic pollutants are reviewed, and finally the recent trends and impact of nanomaterials as green adsorbent and potential catalysts for environmental applications are summarized. The audience for this book includes students, environmentalists, engineers, water scientists, civil and industrial personnel who wish to specialize in adsorption technology. Academically, this book will be of use to students in chemical and environmental engineering who wish to learn about adsorption and its fundamentals. It has also been compiled for practicing engineers who wish to know about recent developments on adsorbent materials in order to promote further research toward improving and developing newer adsorbents and processes for the efficient removal of pollutants from industrial effluents. It is hoped that the book will serve as a readable and useful presentation not only for undergraduate and postgraduate students but also for the water scientists and engineers and as a convenient reference handbook in the form of numerous recent examples and appended information.

Addressing Resource Conservation Issues in Rice-wheat Systems of South Asia SciTech Publishing

With 28 laboratory experiments, this manual offers thorough coverage of modern semiconductor devices. Topics begin at basic semiconductor devices such as signal diodes, LEDs and Zeners; and proceeds through NPN and PNP bipolar transistors and field effect devices. Applications include rectifiers, clippers, clampers, AC to DC power supplies, transistor biasing, small and large signal class A amplifiers, followers, class B amplifiers, ohmic region FET applications and more. An extensive DC power supply project is included as well. Appendices include a symbol glossary, an overview of using a spreadsheet to view data graphically, and links to manufacturer's data sheets. Each experiment includes a parts list and test equipment inventory. Most exercises may be completed just using a digital multimeter, dual DC power supply, a function generator and oscilloscope.

Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms Springer

This study guide is designed for students taking courses in electrical circuit analysis. The textbook includes examples, questions, and exercises that will help electrical engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom. Offering detailed solutions, multiple methods for solving problems, and clear explanations of concepts, this hands-on guide will improve student's problem-solving skills and basic understanding of the topics covered in electric circuit analysis courses. Exercises cover a wide selection of basic and advanced questions and problems Categorizes and orders the problems based on difficulty level, hence suitable for both knowledgeable and under-prepared students Provides detailed and instructor-recommended solutions and methods, along with clear explanations Can be used along with the core textbooks in AC circuit analysis and advanced electrical circuit analysis

EPA 510-B. Stanley a Griffiths

This thoroughly updated and expanded second edition is an authoritative resource on industrial measurement systems and sensors, with particular attention given to temperature, stress, pressure, acceleration, and liquid flow sensors. This edition includes new and expanded chapters on wireless measuring systems and measurement control and diagnostics systems in cars. Moreover, the book

introduces new, cost-effective measurement technology utilizing www servers and LAN computer networks - a topic not covered in any other resource. Coverage of updated wireless measurement systems and wireless GSM/LTE interfacing make this book unique, providing in-depth, practical knowledge. Professionals learn how to connect an instrument to a computer or tablet while reducing the time for collecting and processing measurement data. This hands-on reference presents digital temperature sensors, demonstrating how to design a monitoring system with multipoint measurements. From computer-based measuring systems, electrical thermometers and pressure sensors, to conditioners, crate measuring systems, and virtual instruments, this comprehensive title offers engineers the details they need for their work in the field.

Soil Survey of Lauderdale County, Mississippi IWA Publishing

Sound Reproduction: The Acoustics and Psychoacoustics of Loudspeakers and Rooms, Third Edition explains the physical and perceptual processes that are involved in sound reproduction and demonstrates how to use the processes to create high-quality listening experiences in stereo and multichannel formats. Understanding the principles of sound production is necessary to achieve the goals of sound reproduction in spaces ranging from recording control rooms and home listening rooms to large cinemas. This revision brings new science-based perspectives on the performance of loudspeakers, room acoustics, measurements and equalization, all of which need to be appropriately used to ensure the accurate delivery of music and movie sound tracks from creators to listeners. The robust website (www.routledge.com/cw/toole) is the perfect companion to this necessary resource.

Cryptographic Hardware and Embedded Systems - CHES 2004 Wiley

This book constitutes the refereed proceedings of the 6th International workshop on Cryptographic Hardware and Embedded Systems, CHES 2004, held in Cambridge, MA, USA in August 2004. The 32 revised full papers presented were carefully reviewed and selected from 125 submissions. The papers are organized in topical sections on side channels, modular multiplication, low resources, implementation aspects, collision attacks, fault attacks, hardware implementation, and authentication and signatures.

AC Electrical Circuit Analysis Springer

Groundwater quality monitoring and testing is of paramount importance both in the developed and developing world. This book presents a series of papers illustrating the varied nature of current research into groundwater quality. Urban and rural supplies are covered through a case history approach, and the importance of remedial action to prevent deterioration is emphasized.

Embedded Controllers Using C and Arduino Springer Science & Business Media

Gamma-ray spectrometry is a key technique in the study of the decay of radioactive materials. Used by scientists from a wide range of disciplines, problems can be encountered by the inexperienced user because there is a deceptive simplicity in gamma-ray measurements which can hide significant pitfalls. To resolve this situation, the authors of Practical Gamma-Ray Spectrometry have drawn on many years of teaching experience to produce this uniquely practical volume, giving comprehensive coverage of the whole gamma-ray detection and spectrum analysis processes. Discussions of the origin of gamma-rays and the issue of quality assurance in gamma-ray spectrometry are also included. Practical Gamma-Ray Spectrometry is written with the user in mind and has the following benefits: * Mathematics are kept to a minimum throughout. * No previous knowledge of nuclear matters or instrumentation is assumed. * Detectors and their associated electronic systems are discussed. * Fault-finding guide ensures that any problems can be sorted out with the minimum of fuss. Practical Gamma-Ray Spectrometry will enable all those involved with radioactivity measurements to get the most from their equipment. It will also be of great value to teachers and students in departments where radioactivity is studied, such as physics, chemistry, environmental biology, archaeometry and radiochemistry.

Water Quality and Agriculture CIMMYT

The Most Complete and Accessible Reference to Fundamentals and New Developments in Water Wells and Pumps Technology Water Wells and Pumps has been a leading reference for over two decades in the field of water wells and pumps technology. The field has wit.

Semiconductor Devices Springer

An excellent resource for engineers and technicians alike, this practical design guide offers a comprehensive and easy-to-understand overview of the most important aspects and components of radio frequency equipment and systems. The book applies theoretical fundamentals to real-world issues, heavily relying on examples from recent design projects. Key discussions include system design schemes, circuits and components for system evaluations and design, RF measurement instrumentation, antennas and associated hardware, and guidelines for purchasing test equipment. The book also serves as a valuable on-the-job training resources for sales engineers and a graduate-level text for courses in this area.

The Cover of Life Cambridge University Press

The first reference work on the freshwater and brackish water polychaetes in the Netherlands, Belgium and Germany. It offers a wealth of ecological and taxonomic background information. Includes a new user determination key. The key is based on characteristics that are relatively easy to distinguish, without specialized equipment. A unique tool for aquatic ecologists and water quality management.

AC Electrical Circuits Routledge

Across 15 chapters, Semiconductor Devices covers the theory and application of discrete semiconductor devices including various types of diodes, bipolar junction transistors, JFETs, MOSFETs and IGBTs. Applications include rectifying, clipping, clamping, switching, small signal amplifiers and followers, and class A, B and D power amplifiers. Focusing on practical aspects of analysis and design, interpretations of device data sheets are integrated throughout the chapters. Computer simulations of circuit responses are included as well. Each chapter features a set of learning objectives, numerous sample problems, and a variety of exercises designed to hone and test circuit design and analysis skills. A companion laboratory manual is available. This is the print version of the on-line OER.