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Sprint - Jake Knapp 2016-03-08

NEW YORK TIMES BESTSELLER WALL STREET JOURNAL BESTSELLER "Sprint offers a transformative formula for testing ideas that works whether you're at a startup or a large organization. Within five days, you'll move from idea to prototype to decision, saving you and your team countless hours and countless dollars. A must read for entrepreneurs of all stripes." --Eric Ries, author of *The Lean Startup* From three partners at Google Ventures, a unique five-day process for solving tough problems, proven at more than a hundred companies. Entrepreneurs and leaders face big questions every day: What's the most important place to focus your effort, and how do you start? What will your idea look like in real life? How many meetings and discussions does it take before you can be sure you have the right solution? Now there's a surefire way to answer these important questions: the sprint. Designer Jake Knapp created the five-day process at Google, where sprints were used on everything from Google Search to Google X. He joined Braden Kowitz and John Zeratsky at Google Ventures, and together they have completed more than a hundred sprints with companies in mobile, e-commerce, healthcare, finance, and more. A practical guide to answering critical business questions, *Sprint* is a book for teams of any size, from small startups to Fortune 100s, from teachers to nonprofits. It's for anyone with a big opportunity, problem, or idea who needs to get answers today.

The Sound Reinforcement Handbook - Gary Davis 1989

(Yamaha Products). Sound reinforcement is the use of audio amplification systems. This book is the first and only book of its kind to cover all aspects of designing and using such systems for public address and musical performance. The book features information on both the audio theory involved and the practical applications of that theory, explaining everything from microphones to loudspeakers. This revised edition features almost 40 new pages and is even easier to follow with the addition of an index and a simplified page and chapter numbering system. New topics covered include: MIDI, Synchronization, and an Appendix on Logarithms. 416 Pages.

Adobe Audition CC Classroom in a Book - Adobe Creative Team 2018-10-30

The fastest, easiest, most comprehensive way to learn Adobe Audition CC Classroom in a Book®, the best-selling series of hands-on software training workbooks, offers what no other book or training program does—an official training series from Adobe, developed with the support of Adobe product experts. Adobe Audition CC Classroom in a Book contains 17 lessons that cover the basics and beyond, providing countless tips and techniques to help you become more productive with the program. You can follow the book from start to finish or choose only those lessons that interest you. Purchasing this book includes valuable online extras. Follow the instructions in the book's "Getting Started" section to unlock access to: • Downloadable lesson files you need to work through the projects in the book • Web Edition containing the complete text of the book, interactive quizzes, videos that walk you through the lessons step by step, and updated material covering new feature releases from Adobe What you need to use this book: Adobe Audition CC software, for either Windows or macOS. (Software not included.) Note: Classroom in a Book does not replace the

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The Telecommunications Handbook - Jyrki T. J. Penttinen 2015-01-13

THE TELECOMMUNICATIONS HANDBOOK THE TELECOMMUNICATIONS HANDBOOK ENGINEERING GUIDELINES FOR FIXED, MOBILE AND SATELLITE SYSTEMS Taking a practical approach, *The Telecommunications Handbook* examines the principles and details of all the major and modern telecommunications systems currently available to industry and to end-users. It gives essential information about usage, architectures, functioning, planning, construction, measurements and optimization. The structure of the book is modular, giving both overall descriptions of the architectures and functionality of typical use cases, as well as deeper and practical guidelines for telecom professionals. The focus of the book is on current and future networks, and the most up-to-date functionalities of each network are described in sufficient detail for deployment purposes. The contents include an introduction to each technology, its evolution path, feasibility and utilization, solution and network architecture, and technical functioning of the systems (signaling, coding, different modes for channel delivery and security of core and radio system). The planning of the core and radio networks (system-specific field test measurement guidelines, hands-on network planning advices and suggestions for parameter adjustments) and future systems are also described. With contributions from specialists in both industry and academia, the book bridges the gap between communications in the academic context and the practical knowledge and skills needed to work in the telecommunications industry.

Digital Techniques in Broadcasting Transmission - Robin Blair 2017-08-21

Digital Techniques in Broadcasting Transmission 2E is a practical guide for the broadcast engineer making the transition from analog to digital. Emphasis is on digital communication at the level of the practicing broadcast engineer and the application of digital principles to high-powered broadcast transmission. Unlike texts heavier in mathematics and technical detail, this book provides the most basic, must-have information in a comprehensible manner. *Digital Techniques in Broadcasting Transmission 2E* has been revised to include recent developments, including new information on: ♦Cyclic Block Codes ♦New satellite systems and standards ♦New transmission system standards ♦Pulse distortion ♦Recent studies in the mixed analog and digital environment. Engineers and managers involved in technical transmission issues will find this an essential resource to simplify the transition from analog to digital and will not want to be without this book

Handbook of Mathematics for Engineers and Scientists - Andrei D. Polyaniin 2006-11-27

The Handbook of Mathematics for Engineers and Scientists covers the main fields of mathematics and focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology. To accommodate different mathematical backgrounds, the preeminent authors outline the material in a simplified, schematic manner, avoiding special terminology wherever possible. Organized in ascending order of complexity, the material is divided into two parts. The first part is a coherent survey of the most

important definitions, formulas, equations, methods, and theorems. It covers arithmetic, elementary and analytic geometry, algebra, differential and integral calculus, special functions, calculus of variations, and probability theory. Numerous specific examples clarify the methods for solving problems and equations. The second part provides many in-depth mathematical tables, including those of exact solutions of various types of equations. This concise, comprehensive compendium of mathematical definitions, formulas, and theorems provides the foundation for exploring scientific and technological phenomena.

Physics Of Creep And Creep-Resistant Alloys - F R N Nabarro 2018-05-08

Unique in its approach, this introduction to the physics of creep concentrates on the physical principles underlying observed phenomena. As such it provides a resource for graduate students in materials science, metallurgy, mechanical engineering, physics and chemistry as well as researchers in other fields. Following a brief mathematical treatment, the authors introduce creep phenomena together with some empirical laws and observations. The mechanisms of creep and diffusion under varying experimental conditions are subsequently analysed and developed. The second half of the text considers alloying in greater detail as well as exploring the structure and properties of superalloys and stress effects in these materials.

Life of Pi - Yann Martel 2022-01-27

"Life of Pi will make you believe in the power of theatre" (Times). After a cargo ship sinks in the middle of the vast Pacific Ocean, there are five survivors stranded on a lifeboat - a hyena, a zebra, an orangutan, a Royal Bengal tiger, and a sixteen year-old boy named Pi. Time is against them, nature is harsh, who will survive? Based on one of the most extraordinary and best-loved works of fiction - winner of the Man Booker Prize, selling over fifteen million copies worldwide - and featuring breath-taking puppetry and state-of-the-art visuals, Life of Pi is a universally acclaimed, smash hit adaptation of an epic journey of endurance and hope. Adapted by acclaimed playwright Lolita Chakrabarti, this edition was published to coincide with the West End premiere in November 2021.

Homeland - Cory Doctorow 2013-02-05

In Cory Doctorow's wildly successful Little Brother, young Marcus Yallow was arbitrarily detained and brutalized by the government in the wake of a terrorist attack on San Francisco—an experience that led him to become a leader of the whole movement of technologically clued-in teenagers, fighting back against the tyrannical security state. A few years later, California's economy collapses, but Marcus's hacktivist past lands him a job as webmaster for a crusading politician who promises reform. Soon his former nemesis Masha emerges from the political underground to gift him with a thumbdrive containing a Wikileaks-style cable-dump of hard evidence of corporate and governmental perfidy. It's incendiary stuff—and if Masha goes missing, Marcus is supposed to release it to the world. Then Marcus sees Masha being kidnapped by the same government agents who detained and tortured Marcus years earlier. Marcus can leak the archive Masha gave him—but he can't admit to being the leaker, because that will cost his employer the election. He's surrounded by friends who remember what he did a few years ago and regard him as a hacker hero. He can't even attend a demonstration without being dragged onstage and handed a mike. He's not at all sure that just dumping the archive onto the Internet, before he's gone through its millions of words, is the right thing to do. Meanwhile, people are beginning to shadow him, people who look like they're used to inflicting pain until they get the answers they want. Fast-moving, passionate, and as current as next week, Homeland is every bit the equal of Little Brother—a paean to activism, to courage, to the drive to make the world a better place. At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

The Tipping Point - Malcolm Gladwell 2006-11-01

From the bestselling author of The Bomber Mafia: discover Malcolm Gladwell's breakthrough debut and explore the science behind viral trends in business, marketing, and human behavior. The tipping point is that magic moment when an idea, trend, or social behavior crosses a threshold, tips, and spreads like wildfire. Just as a single sick person can start an epidemic of the flu, so too can a small but precisely targeted push cause a fashion trend, the popularity of a new product, or a drop in the crime rate. This widely acclaimed bestseller, in which Malcolm Gladwell explores and brilliantly illuminates the tipping point phenomenon, is already changing the way people throughout the world think about selling products and disseminating ideas. "A wonderful page-turner about a fascinating idea that should affect the way every

thinking person looks at the world." —Michael Lewis

Radio - Steve Warren 2005

First Published in 2005. Routledge is an imprint of Taylor & Francis, an informa company.

Ethics for the Information Age - Michael Jay Quinn 2006

Widely praised for its balanced treatment of computer ethics, Ethics for the Information Age offers a modern presentation of the moral controversies surrounding information technology. Topics such as privacy and intellectual property are explored through multiple ethical theories, encouraging readers to think critically about these issues and to make their own ethical decisions.

Real World Video Compression - Andy Beach 2010-04-16

Video is the Internet these days and as the growing trend toward viewing video on mobile devices increases too, the attention is turning toward creating a good user experience for downloading and viewing that video. One of the keys to this is delivering video in the correct format with the proper compression for that delivery. Real World Video Compression is one of the first books on this topic to demystify the various approaches to compression. It begins by describing the basic concepts of video compression, explains why you might choose a particular compression tool over another, and covers important workflow practices.

After the groundwork is laid, readers will learn how to compress their video according to the specific requirements of their projects and will learn some best practices by following the author's own tips and recipes. Experts in the field lend their own solutions in several sidebars throughout the book, making this a valuable learning tool for anyone learning to encode video, whether they are bloggers, DVD authors, video editors, or students. Contents at a Glance Chapter One: Understanding Video and Audio. Chapter Two: The Language of Compression Chapter Three: Best Practices Chapter Four: Preprocessing Interview with a Compressionist: John Howell Chapter Five: Compression Tools Interview with a Compressionist: Nico Puertollano Chapter Six: Compressing for DVDs Interview with a Compressionist: Ben Waggoner Chapter Seven: Compressing for the Web Interview with a Compressionist: Jim Rohner Chapter Eight: Compressing for Mobile Interview with a Compressionist: Ryanne Hodson Chapter Nine: Compressing for Set-Top Boxes Interview with a Compressionist: Andy Beach "In the highly accessible REAL WORLD VIDEO COMPRESSION, Andy Beach illuminates the dark-art of encoding and provides candid insight from working professionals. Andy's fluid style and easy prose decode this often misunderstood and often misinformed world...he is the Carl Sagan of compression." Brian Gary Filmmaker, Compressionist Author of the COMPRESSOR 3 QUICK REFERENCE GUIDE

Radio Production - Robert McLeish 2015-09-16

Radio Production is for professionals and students interested in understanding the radio industry in today's ever-changing world. This book features up-to-date coverage of the purpose and use of radio with detailed coverage of current production techniques in the studio and on location. In addition there is exploration of technological advances, including handheld digital recording devices, the use of digital, analogue and virtual mixing desks and current methods of music storage and playback. Within a global context, the sixth edition also explores American radio by providing an overview of the rules, regulations, and purpose of the Federal Communications Commission. The sixth edition includes: Updated material on new digital recording methods, and the development of outside broadcast techniques, including Smartphone use. The use of social media as news sources, and an expansion of the station's presence. Global government regulation and journalistic codes of practice. Comprehensive advice on interviewing, phone-ins, news, radio drama, music, and scheduling. This edition is further enhanced by a companion website, featuring examples, exercises, and resources: www.focalpress.com/cw/mcleish.

National Association of Broadcasters Engineering Handbook - Graham A. Jones 2013-04-26

The NAB Engineering Handbook provides detailed information on virtually every aspect of the broadcast chain, from news gathering, program production and postproduction through master control and distribution links to transmission, antennas, RF propagation, cable and satellite. Hot topics covered include HD Radio, HDTV, 2 GHz broadcast auxiliary services, EAS, workflow, metadata, digital asset management, advanced video and audio compression, audio and video over IP, and Internet broadcasting. A wide range of related topics that engineers and managers need to understand are also covered, including broadcast administration, FCC practices, technical standards, security, safety, disaster planning, facility planning,

project management, and engineering management. Basic principles and the latest technologies and issues are all addressed by respected professionals with first-hand experience in the broadcast industry and manufacturing. This edition has been fully revised and updated, with 104 chapters and over 2000 pages. The Engineering Handbook provides the single most comprehensive and accessible resource available for engineers and others working in production, postproduction, networks, local stations, equipment manufacturing or any of the associated areas of radio and television.

Streaming and Digital Media - Dan Rayburn 2012-07-26

Steaming and Digital Media gives you a concise and direct analysis to understand a scalable, profitable venture, as well as the common and hidden pitfalls to avoid in your business. By focusing on both the business implications and technical differences between online video and traditional broadcast distribution, you will learn how to gain significant time-to-market and cost-saving advantages by effectively using streaming and digital media technologies. As part of the NAB Executive Technology Briefing series, the book is geared towards the manager or executive and no technical prerequisite is required. You can quickly learn the technical speak as well as the market and business implications. New In The Book: - Consumer generated content and portals - Distribution of full-length video content - New distribution outlets for delivering content (Sling, TiVO, IPTV) - Addition of Flash streaming technology and Podcasting - Up-to-date market research and data - New industry pricing data

IPTV and Internet Video - Wes Simpson 2012-11-12

Stake your claim in the rapidly growing IPTV market with a thorough understanding of the key trends and technological advances shaping the future of broadband video technology. Make informed business decisions with a working knowledge of changes in technology, services, and business models. Get an up-to-date picture of the industry with new forms of television delivery, the new standard for video delivery, and current market figures. With annual growth estimates at 32+% for the next six years, this is necessary reading for remaining current in the marketplace. The second edition covers the monetization of IPTV, the differences between IPTV & Internet video, trends for the future and industry expectations. Written by two leading digital media experts, each with 25 years technology development experience and global insight.

Handbook of Power System Engineering - Yoshihide Hase 2007-06-13

Maintaining the reliable and efficient generation, transmission and distribution of electrical power is of the utmost importance in a world where electricity is the inevitable means of energy acquisition, transportation, and utilization, and the principle mode of communicating media. Our modern society is entirely dependent on electricity, so problems involving the continuous delivery of power can lead to the disruption and breakdown of vital economic and social infrastructures. This book brings together comprehensive technical information on power system engineering, covering the fundamental theory of power systems and their components, and the related analytical approaches. Key features: Presents detailed theoretical explanations of simple power systems as an accessible basis for understanding the larger, more complex power systems. Examines widely the theory, practices and implementation of several power sub-systems such as generating plants, over-head transmission lines and power cable lines, sub-stations, including over-voltage protection, insulation coordination as well as power systems control and protection. Discusses steady-state and transient phenomena from basic power-frequency range to lightning- and switching-surge ranges, including system faults, wave-form distortion and lower-order harmonic resonance. Explains the dynamics of generators and power systems through essential mathematical equations, with many numerical examples. Analyses the historical progression of power system engineering, in particular the descriptive methods of electrical circuits for power systems. Written by an author with a wealth of experience in the field, both in industry and academia, the Handbook of Power System Engineering provides a single reference work for practicing engineers, researchers and those working in industry that want to gain knowledge of all aspects of power systems. It is also valuable for advanced students taking courses or modules in power system engineering.

NAB Legal Guide to Broadcast Law and Regulation - Jean Benz 2014-10-10

To guide the industry in the 21st century, counsel for the National Association of Broadcasters (NAB) and leading attorneys have prepared the only up-to-date, comprehensive broadcast regulatory publication: NAB's Legal Guide to Broadcast Law and Regulation. Known for years as the "voice" for broadcast law, this

publication addresses the full range of FCC regulatory issues facing radio and television broadcasters, as well as intellectual property, First Amendment, cable and satellite, and increasingly important online issues. It gives practicing attorneys, in-house counsel, broadcasters and other communications industry professionals practical "how to" advice on topics ranging literally from "a" (advertising) to "z" (zoning). Now in its 6th edition, NAB's Legal Guide to Broadcast Law and Regulation is available to keep you current on changes in the law, significant court decisions, FCC rules, agency policies and applied solutions. The National Association of Broadcasters is a nonprofit trade association that advocates on behalf of local radio and television stations and broadcast networks before Congress, the Federal Communications Commission and other federal agencies, and the courts.

Antenna Engineering Handbook - Richard C. Johnson 1993

Best engineer's reference on antennas. Table of Contents: Introduction to Antennas; Fundamentals of Antennas; Arrays of Discrete Elements; Dipoles and Monopoles; Loop Antennas; Small Antennas; Microstrip Antennas; Slot Antennas; Slot-Antenna Arrays; Leaky-Wave Antennas; Long-Wire Antennas; Surface-Wave Antennas and Surface-Wave Excited Arrays; Helical Antennas; Frequency-Independent Antennas; Horn Antennas; Lens Antennas; Reflector Antennas; Feeds for Lenses and Reflectors; Electromechanical Scanning Antennas; Frequency-Scan Antennas; Phased Arrays; Conformal and Low-Profile Arrays; Adaptive Antennas; Methods of Polarization Synthesis; Low-Frequency Antennas; Medium-Frequency Broadcast Antennas; High-Frequency Antennas; VHF and UHF Communications Antennas; and more. Index. 800 illustrations.

LatinX Voices - Katie Coronado 2018-07-16

LatinX Voices is the first undergraduate textbook that includes an overview of Hispanic/LatinX Media in the U.S. and gives readers an understanding of how media in the United States has transformed around this audience. Based on the authors' professional and research experience, and teaching broadcast media courses in the classroom, this text covers the evolving industry and offers perspective on topics related to Latin-American areas of interest. With professional testimonials from those who have left their mark in print, radio, television, film and new media, this collection of chapters brings together expert voices in Hispanic/LatinX media from across the U.S., and explains the impact of this population on the media industry today.

Introduction to Instrumentation and Measurements - Robert B. Northrop 2018-09-03

Weighing in on the growth of innovative technologies, the adoption of new standards, and the lack of educational development as it relates to current and emerging applications, the third edition of Introduction to Instrumentation and Measurements uses the authors' 40 years of teaching experience to expound on the theory, science, and art of modern instrumentation and measurements (I&M). What's New in This Edition: This edition includes material on modern integrated circuit (IC) and photonic sensors, micro-electro-mechanical (MEM) and nano-electro-mechanical (NEM) sensors, chemical and radiation sensors, signal conditioning, noise, data interfaces, and basic digital signal processing (DSP), and upgrades every chapter with the latest advancements. It contains new material on the designs of micro-electro-mechanical (MEMS) sensors, adds two new chapters on wireless instrumentation and microsensors, and incorporates extensive biomedical examples and problems. Containing 13 chapters, this third edition: Describes sensor dynamics, signal conditioning, and data display and storage Focuses on means of conditioning the analog outputs of various sensors Considers noise and coherent interference in measurements in depth Covers the traditional topics of DC null methods of measurement and AC null measurements Examines Wheatstone and Kelvin bridges and potentiometers Explores the major AC bridges used to measure inductance, Q, capacitance, and D Presents a survey of sensor mechanisms Includes a description and analysis of sensors based on the giant magnetoresistive effect (GMR) and the anisotropic magnetoresistive (AMR) effect Provides a detailed analysis of mechanical gyroscopes, clinometers, and accelerometers Contains the classic means of measuring electrical quantities Examines digital interfaces in measurement systems Defines digital signal conditioning in instrumentation Addresses solid-state chemical microsensors and wireless instrumentation Introduces mechanical microsensors (MEMS and NEMS) Details examples of the design of measurement systems Introduction to Instrumentation and Measurements is written with practicing engineers and scientists in mind, and is intended to be used in a classroom course

or as a reference. It is assumed that the reader has taken core EE curriculum courses or their equivalents.

Broadcast Engineer's Reference Book - EPJ Tozer 2012-11-12

The current and definitive reference broadcast engineers need! Compiled by leading international experts, this authoritative reference work covers every aspect of broadcast technology from camera to transmitter - encompassing subjects from analogue techniques to the latest digital compression and interactive technologies in a single source. Written with a minimum of maths, the book provides detailed coverage and quick access to key technologies, standards and practices. This global work will become your number one resource whether you are from an audio, video, communications or computing background. Composed for the industry professional, practicing engineer, technician or sales person looking for a guide that covers the broad landscape of television technology in one handy source, the Broadcast Engineer's Reference Book offers comprehensive and accurate technical information. Get this wealth of information at your fingertips!

· Utilize extensive illustrations-more than 1200 tables, charts and photographs. · Find easy access to essential technical and standards data. · Discover information on every aspect of television technology. · Learn the concepts and terms every broadcaster needs to know. Learn from the experts on the following technologies: Quantities and Units; Error Correction; Network Technologies; Telco Technologies; Displays; Colourimetry; Audio Systems; Television Standards; Colour encoding; Time code; VBI data carriage; Broadcast Interconnect formats; File storage formats; HDTV; MPEG 2; DVB; Data Broadcast; ATSC Interactive TV; encryption systems; Optical systems; Studio Cameras and camcorders; VTRs and Tape Storage; Standards Convertors; TV Studios and Studio Equipment; Studio Lighting and Control; post production systems; Telecines; HDTV production systems; Media Asset Management systems; Electronic News Production Systems; OB vehicles and Mobile Control Rooms;ENG and EFP; Power and Battery Systems; R.F. propagation; Service Area Planning; Masts Towers and Antennas; Test and measurement; Systems management; and many more! Related Focal Press titles: Watkinson: Convergence In Broadcast and Communications Media (2001, £59.99 (GBP)/ \$75.95 (USD), ISBN: 0240515099) Watkinson: MPEG Handbook (2001, £35 (GBP)/\$54.99 (USD) ISBN: 0240516567)

A Broadcast Engineering Tutorial for Non-Engineers - Graham A. Jones 2005-04-13

First Published in 2005. Routledge is an imprint of Taylor & Francis, an informa company.

Engineering Surveying - W Schofield 2007-02-14

Engineering surveying involves determining the position of natural and man-made features on or beneath the Earth's surface and utilizing these features in the planning, design and construction of works. It is a critical part of any engineering project. Without an accurate understanding of the size, shape and nature of the site the project risks expensive and time-consuming errors or even catastrophic failure. This fully updated sixth edition of Engineering Surveying covers all the basic principles and practice of the fundamentals such as vertical control, distance, angles and position right through to the most modern technologies. It includes: * An introduction to geodesy to facilitate greater understanding of satellite systems * A fully updated chapter on GPS, GLONASS and GALILEO for satellite positioning in surveying * All new chapter on the important subject of rigorous estimation of control coordinates * Detailed material on mass data methods of photogrammetry and laser scanning and the role of inertial technology in them With many worked examples and illustrations of tools and techniques, it suits students and professionals alike involved in surveying, civil, structural and mining engineering, and related areas such as geography and mapping.

The Poisonwood Bible - Barbara Kingsolver 2008-09-04

'Breathtaking.' Sunday Times 'Exquisite.' The Times 'Beautiful.' Independent 'Powerful.' New York Times An international bestseller and a modern classic, this suspenseful epic of one family's tragic undoing and their remarkable reconstruction has been read, adored and shared by millions around the world. This story is told by the wife and four daughters of Nathan Price, a fierce, evangelical Baptist who takes his family and mission to the Belgian Congo in 1959. They carry with them everything they believe they will need from home, but soon find that all of it - from garden seeds to Scripture - is calamitously transformed on African soil. What readers are saying 'This remains one of the most fascinating books I have ever read.' 'I felt every emotion under the sky with this book.' 'Riveting.' 'This novel left a lasting - YEARS LASTING - impression.' 'This is one of those booksthat stands the test of time and is worth rereading.' 'Five epic, no-wonder-this-

book-is-so-well-loved stars!'

National Association of Broadcasters Engineering Handbook - Garrison C. Cavell 2017-07-28

The NAB Engineering Handbook is the definitive resource for broadcast engineers. It provides in-depth information about each aspect of the broadcast chain from audio and video contribution through an entire broadcast facility all the way to the antenna. New topics include Ultra High Definition Television, Internet Radio Interfacing and Streaming, ATSC 3.0, Digital Audio Compression Techniques, Digital Television Audio Loudness Management, and Video Format and Standards Conversion. Important updates have been made to incumbent topics such as AM, Shortwave, FM and Television Transmitting Systems, Studio Lighting, Cameras, and Principles of Acoustics. The big-picture, comprehensive nature of the NAB Engineering Handbook will appeal to all broadcast engineers—everyone from broadcast chief engineers, who need expanded knowledge of all the specialized areas they encounter in the field, to technologists in specialized fields like IT and RF who are interested in learning about unfamiliar topics. Chapters are written to be accessible and easy to understand by all levels of engineers and technicians. A wide range of related topics that engineers and technical managers need to understand are covered, including broadcast documentation, FCC practices, technical standards, security, safety, disaster planning, facility planning, project management, and engineering management.

The Media Workflow Puzzle - Clyde Smith 2021-03-18

This edited collection brings together a team of top industry experts to provide a comprehensive look at the entire media workflow from start to finish. The Media Workflow Puzzle gives readers an in-depth overview of the workflow process, from production to distribution to archiving. Pulling from the expertise of twenty contributing authors and editors, the book covers topics including content production, postproduction systems, media asset management, content distribution, and archiving and preservation, offering the reader an understanding of all the various elements and processes that go into the media workflow ecosystem. It concludes with an exploration of the possibilities for the future of media workflows and the new opportunities it may bring. Professionals and students alike looking to understand how to manage media content for its entire lifecycle will find this an invaluable resource.

SARS-CoV-2 Spike Protein Convergent Evolution - Daniele Focosi 2021

This book reviews the current knowledge of the globally circulating SARS-CoV-2 variants, highlights their distinct genetic characteristics and associated conformational changes in the viral spike protein, and profoundly discusses the mechanisms of convergent evolution that led to the rise of these mutated strains at different geographic regions during the Covid-19 pandemic. Furthermore, the book explores how these variants do and may impact the efficacy of established neutralizing antibody-based (nAb) vaccines and therapeutics by analysing latest in vivo and in vitro clinical data. Finally, the author discusses ways on how nAb Covid-19 treatment derived immune escape of SARS-CoV-2 could be minimized in the future.

Standard Handbook of Petroleum and Natural Gas Engineering: - William C. Lyons 1996-10-16

Petroleum engineering now has its own true classic handbook that reflects the profession's status as a mature major engineering discipline. Formerly titled the Practical Petroleum Engineer's Handbook, by Joseph Zaba and W.T. Doherty (editors), this new, completely updated two-volume set is expanded and revised to give petroleum engineers a comprehensive source of industry standards and engineering practices. It is packed with the key, practical information and data that petroleum engineers rely upon daily. The result of a fifteen-year effort, this handbook covers the gamut of oil and gas engineering topics to provide a reliable source of engineering and reference information for analyzing and solving problems. It also reflects the growing role of natural gas in industrial development by integrating natural gas topics throughout both volumes. More than a dozen leading industry experts-academia and industry-contributed to this two-volume set to provide the best , most comprehensive source of petroleum engineering information available.

Structural and Stress Analysis - T.H.G. Megson 2005-02-17

Structural analysis is the corner stone of civil engineering and all students must obtain a thorough understanding of the techniques available to analyse and predict stress in any structure. The new edition of this popular textbook provides the student with a comprehensive introduction to all types of structural and stress analysis, starting from an explanation of the basic principles of statics, normal and shear force and

bending moments and torsion. Building on the success of the first edition, new material on structural dynamics and finite element method has been included. Virtually no prior knowledge of structures is assumed and students requiring an accessible and comprehensive insight into stress analysis will find no better book available. Provides a comprehensive overview of the subject providing an invaluable resource to undergraduate civil engineers and others new to the subject Includes numerous worked examples and problems to aide in the learning process and develop knowledge and skills Ideal for classroom and training course usage providing relevant pedagogy

The Television Code - Deborah L. Jaramillo 2018-09-26

The broadcasting industry's trade association, the National Association of Broadcasters (NAB), sought to sanitize television content via its self-regulatory document, the Television Code. The Code covered everything from the stories, images, and sounds of TV programs (no profanity, illicit sex and drinking, negative portrayals of family life and law enforcement officials, or irreverence for God and religion) to the allowable number of commercial minutes per hour of programming. It mandated that broadcasters make time for religious programming and discouraged them from charging for it. And it called for tasteful and accurate coverage of news, public events, and controversial issues. Using archival documents from the Federal Communications Commission, NBC, the NAB, and a television reformer, Senator William Benton, this book explores the run-up to the adoption of the 1952 Television Code from the perspectives of the government, TV viewers, local broadcasters, national networks, and the industry's trade association. Deborah L. Jaramillo analyzes the competing motives and agendas of each of these groups as she builds a convincing case that the NAB actually developed the Television Code to protect commercial television from reformers who wanted more educational programming, as well as from advocates of subscription television, an alternative distribution model. By agreeing to self-censor content that viewers, local stations, and politicians found objectionable, Jaramillo concludes, the NAB helped to ensure that commercial broadcast television would remain the dominant model for decades to come.

Feedback Systems - Karl Johan Åström 2021-02-02

The essential introduction to the principles and applications of feedback systems—now fully revised and expanded This textbook covers the mathematics needed to model, analyze, and design feedback systems. Now more user-friendly than ever, this revised and expanded edition of Feedback Systems is a one-volume resource for students and researchers in mathematics and engineering. It has applications across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science, and operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. Features a new chapter on design principles and tools, illustrating the types of problems that can be solved using feedback Includes a new chapter on fundamental limits and new material on the Routh-Hurwitz criterion and root locus plots Provides exercises at the end of every chapter Comes with an electronic solutions manual An ideal textbook for undergraduate and graduate students Indispensable for researchers seeking a self-contained resource on control theory

System Design, Modeling, and Simulation - Claudius Ptolemaeus 2013-09-27

This book is a definitive introduction to models of computation for the design of complex, heterogeneous systems. It has a particular focus on cyber-physical systems, which integrate computing, networking, and physical dynamics. The book captures more than twenty years of experience in the Ptolemy Project at UC

Berkeley, which pioneered many design, modeling, and simulation techniques that are now in widespread use. All of the methods covered in the book are realized in the open source Ptolemy II modeling framework and are available for experimentation through links provided in the book. The book is suitable for engineers, scientists, researchers, and managers who wish to understand the rich possibilities offered by modern modeling techniques. The goal of the book is to equip the reader with a breadth of experience that will help in understanding the role that such techniques can play in design.

Analysis and Design of Flight Vehicle Structures - E. F. Bruhn 1973

Information Theory, Inference and Learning Algorithms - David J. C. MacKay 2003-09-25

Table of contents

Steal This Book - Abbie Hoffman 2014-04-01

Steal this book

The Disappearing Spoon - Sam Kean 2010-07-12

From New York Times bestselling author Sam Kean comes incredible stories of science, history, finance, mythology, the arts, medicine, and more, as told by the Periodic Table. Why did Gandhi hate iodine (I, 53)? How did radium (Ra, 88) nearly ruin Marie Curie's reputation? And why is gallium (Ga, 31) the go-to element for laboratory pranksters? The Periodic Table is a crowning scientific achievement, but it's also a treasure trove of adventure, betrayal, and obsession. These fascinating tales follow every element on the table as they play out their parts in human history, and in the lives of the (frequently) mad scientists who discovered them. THE DISAPPEARING SPOON masterfully fuses science with the classic lore of invention, investigation, and discovery--from the Big Bang through the end of time. *Though solid at room temperature, gallium is a moldable metal that melts at 84 degrees Fahrenheit. A classic science prank is to mold gallium spoons, serve them with tea, and watch guests recoil as their utensils disappear.

The Cigarette Century - Allan Brandt 2009-01-06

From agriculture to big business, from medicine to politics, The Cigarette Century is the definitive account of how smoking came to be so deeply implicated in our culture, science, policy, and law. No product has been so heavily promoted or has become so deeply entrenched in American consciousness. The Cigarette Century shows in striking detail how one ephemeral (and largely useless) product came to play such a dominant role in so many aspects of our lives—and deaths.

The SBE Broadcast Engineering Handbook: A Hands-on Guide to Station Design and Maintenance - Jerry C. Whitaker 2016-04-22

Up-To-Date Broadcast Engineering Essentials This encyclopedic resource offers complete coverage of the latest broadcasting practices and technologies. Written by a team of recognized experts in the field, the SBE Broadcast Engineering Handbook thoroughly explains radio and television transmission systems, DTV transport, information technology systems for broadcast applications, production systems, facility design, broadcast management, and regulatory issues. In addition, valuable, easy-to-use appendices are included with extensive reference data and tables. The SBE Broadcast Engineering Handbook is a hands-on guide to broadcast station design and maintenance. SBE Broadcast Engineering Handbook covers: · Regulatory Requirements and Related Issues · AM, FM, and TV Transmitters, Transmission Lines, and Antenna Systems · DTV Transmission Systems, Coverage, and Measurement · MPEG-2 Transport · Program and System Information Protocol (PSIP) · Information Technology for Broadcast Plants · Production Facility Design · Audio and Video Monitoring Systems · Master Control and Centralized Facilities · Asset Management · Production Intercom Systems · Production Lighting Systems · Broadcast Facility Design · Transmission System Maintenance · Broadcast Management and Leadership