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FPHDVS - BYRON CRANE

This book describes the fundamentals and details of MPEG-2 Systems technology. Written by an expert in the field, this book examines the MPEG-2 system specification as developed in the early 1990's, as well as its evolution into the fourth edition of the MPEG-2 system standard, published in 2013. While MPEG-2 systems will continue to evolve further, this book describes the MPEG-2 system functionality as of October 2013. Furthermore, relevant background information is provided. The discussion of MPEG-2 system functionality requires knowledge of various fundamental issues, such as timing, and supported content formats. Therefore also some basic information on video and audio coding is provided, including their evolution. Also other content formats supported in MPEG-2 systems are described, as far as needed to understand MPEG-2 systems. Ordered logically working from the basics and background through to the details and fundamentals of MPEG-2 transport streams and program streams. Explores important issues within the standardization process itself. Puts the developments on MPEG-2 systems into historical perspective. Includes support of 3D Video and transport of AVC, SVC and MVC. Concludes with additional issues such as real-time interface, delivery over IP networks and usage by application standardization bodies. Predicts a continuing promising future for MPEG-2 transport streams.

Poly(lactic Acid): A Practical Guide for the Processing, Manufacturing, and Applications of PLA, Second Edition, provides a practical guide for engineers and scientists working in PLA and on the development of emerging new products. The current market situation for PLA and biodegradable polymers is described, along with applications across a range of market sectors. In addition, the mechanical, chemical, thermal, rheology and degradation properties are included. Updates include new chapters covering various processing methods, as well as recycling methods, and additives and processing aids. New applications cover a range of products (including 3D Printing), and an environmental assessment, including regulatory aspects. The book is not only a useful introduction to this topic, but also a practical, readily applicable reference book that will support decision-making in the plastics industry. Presents an essential reference for engineers, scientists and product designers considering switching to a sustainable plastic. Covers the properties, synthesis and polymerization of PLA, along with processing techniques involved in fabricating parts from this polymer. Includes critical new chapters on processing, additives, recycling and environmental considerations relating to PLA.

This textbook introduces the "Fundamentals of Multimedia", addressing real issues commonly faced in the workplace. The essential concepts are explained in a practical way to enable students to apply their existing skills to address problems in multimedia. Fully revised and updated, this new edition now includes coverage of such topics as 3D TV, social networks, high-efficiency video compression and conferencing, wireless and mobile networks, and their attendant technologies. Features: presents an overview of the key concepts in multimedia, including color science; reviews lossless and lossy compression methods for image, video and audio data; examines the demands placed by multimedia communications on wired and wireless networks; discusses the impact of social media and cloud computing on information sharing and on multimedia content search and retrieval; includes study exercises at the end of each chapter; provides supplementary resources for both students and instructors at an associated website.

Sampled Data Systems - ADCs for DSP Applications - DACs for DSP Applications - Fast Fourier Transforms - Digital Filters - DSP Hardware - Interfacing to DSPs - DSP Applications - Hardware Design Techniques.

PAAMS, the International Conference on Practical Applications of Agents and Multi-Agent Systems is an evolution of the International Workshop on Practical Applications of Agents and Multi-Agent Systems. PAAMS is an international yearly tribune to present, to discuss, and to disseminate the latest developments and the most important outcomes related to real-world applications. It provides a unique opportunity to bring multi-disciplinary experts, academics and practitioners together to exchange their experience in the development of Agents and Multi-Agent Systems. This volume presents the papers that have been accepted for the 2009 edition. These articles capture the most innovative results and this year's trends: Assisted Cognition, E-Commerce, Grid Computing, Human Modelling, Information Systems, Knowledge Management, Agent-Based Simulation, Software Development, Transports, Trust and Security. Each paper has been reviewed by three different reviewers, from an international committee composed of 64 members from 20 different countries. From the 92 submissions received, 35 were selected for full presentation at the conference, and 26 were accepted as posters.

Economic forecasts, names, and addresses for thousands of leading employers nationwide, and multiple extensive indices are features of this all-in-one career guide.

First Published in 2004. Routledge is an imprint of Taylor & Francis, an informa company.

A flagship marketing resource that provides an introduction to marketing concepts, strategies and practices with a balance of depth of coverage and ease of learning. Principles of Marketing keeps pace with a rapidly changing field, focussing on the ways brands create and capture consumer value. Practical content and linkage are at the heart of this edition. Real local and international examples bring ideas to life and new feature 'linking the concepts' helps students test and consolidate understanding as they go. The latest edition enhances understanding with a unique learning design including revised, integrative concept maps at the start of each chapter, end-of-chapter features summarising ideas and themes, a mix of mini and major case studies to illuminate concepts, and critical thinking exercises for applying skills. MyLab Marketing can be packaged with this edition to engage students and allow them to apply their knowledge, strengthen their understanding of key concepts and develop critical decision making skills.

Contains over 470 works, from finished pieces to support sketches and roughs, with each piece accompanied by text detailing the design ideas and il-

lustration techniques used. This book takes readers on a journey into the minds of talented and successful concept design professionals.

Could you survive being stranded at sea? Imagine encountering a barracuda in the Caribbean Sea, a jellyfish in Australia's Great Barrier Reef, or a humpback whale in the Arctic Ocean. How far would you be willing to go to save your own life? Would it work? Flip through these pages to find out! Since 1958 the Maritime Administration has continuously conducted instructions in use of collision avoidance radar for qualified U.S. seafaring personnel and representatives of interested Federal and State Agencies. Beginning in 1963, to facilitate the expansion of training capabilities and at the same time to provide the most modern techniques in training methods, radar simulators were installed in Maritime Administration's three region schools. It soon became apparent that to properly instruct the trainees, even with the advanced equipment, a standardized up-to-date instruction manual was needed. The first manual was later revised to serve both as a classroom textbook and as an onboard reference handbook. This newly updated manual, the fourth revision, in keeping with Maritime Administration policy, has been restructured to include improved and more effective methods of plotting techniques for use in Ocean, Great Lakes, Coastwise and Inland Waters navigation. Robert J. Blackwell, Assistant Secretary for Maritime Affairs. This work provides comprehensive and contemporary information on the essential concepts and terms in video and television, including coverage of test and measurement procedures.

For anyone involved in buying and managing telephone systems, this book brings clarity to the confusing array of products and services (like voice-mail, interactive voice response, fax-on-demand, T-1, DSL, etc.). The author explains how each technology works, and what its practical applications are, so readers can choose the best systems and service.

Analog Circuits Cookbook is a collection of tried and tested recipes from the masterchef of analog and RF design. Based on articles from Electronics World, this book provides a diet of high quality design techniques and applications, and proven circuit designs, all concerned with the analog, RF and interface fields of electronics. Ian Hickman uses illustrations and examples rather than tough mathematical theory to present a wealth of ideas and tips based on his own workbench experience. This second edition includes 10 of Hickman's latest articles, alongside 20 of his most popular classics. The new material includes articles on power supplies, filters using negative resistance, phase noise and video surveillance systems. Essential reading for all circuit design professionals and advanced hobbyists. Contains 10 of Ian Hickman's latest articles, alongside 20 of his most popular classics. Handbook of Signal Processing Systems is organized in three parts. The first part motivates representative applications that drive and apply state-of-the-art methods for design and implementation of signal processing systems; the second part discusses architectures for implementing these applications; the third part focuses on compilers and simulation tools, describes models of computation and their associated design tools and methodologies. This handbook is an essential tool for professionals in many fields and researchers of all levels.

LEARN ABOUT MICROSYSTEMS PACKAGING FROM THE GROUND UP. Written by Rao Tummala, the field's leading author, Fundamentals of Microsystems Packaging is the only book to cover the field from wafer to systems, including every major contributing technology. This rigorous and thorough introduction to electronic packaging technologies gives you a solid grounding in microelectronics, photonics, RF, packaging design, assembly, reliability, testing, and manufacturing and its relevance to both semiconductors and systems. You'll find: *Full coverage of electrical, mechanical, chemical, and materials aspects of each technology *Easy-to-read schematics and block diagrams *Fundamental approaches to all system issues *Examples of all common configurations and technologies—wafer level packaging, single chip, multichip, RF, opto-electronic, microvia boards, thermal and others *Details on chip-to-board connections, sealing and encapsulation, and manufacturing processes *Basics of electrical and reliability testing Use this guide to get help with consumer purchases, problems and complaints. Find consumer contacts at hundreds of companies and trade associations; local, state, and federal government agencies; national consumer organizations; and more.

Written by experts actively involved in the 3GPP standards and product development, LTE for UMTS, Second Edition gives a complete and up-to-date overview of Long Term Evolution (LTE) in a systematic and clear manner. Building upon the success of the first edition, LTE for UMTS, Second Edition has been revised to now contain improved coverage of the Release 8 LTE details, including field performance results, transport network, self-optimized networks and also covering the enhancements done in 3GPP Release 9. This new edition also provides an outlook to Release 10, including the overview of Release 10 LTE-Advanced technology components which enable reaching data rates beyond 1 Gbps. Key updates for the second edition of LTE for UMTS are focused on the new topics from Release 9 & 10, and include: LTE-Advanced; Self-optimized networks (SON); Transport network dimensioning; Measurement results.

Electronic Inventions and Discoveries: Electronics from Its Earliest Beginnings to the Present Day provides a summary of the development of the whole field of electronics. Organized into 13 chapters, the book covers and reviews the history of electronics as a whole and its aspects. The opening chapter covers the beginnings of electronics, while the next chapter discusses the development of components, transistors, and integrated circuits. The third chapter tackles the expansion of electronics and its effects on industry. The succeeding chapters discuss the history of the aspects of electronics, such as audio and sound reproduction, radio and telecommunications, radar, television, computers, robotics, information technology, and industrial and other applications. Chapter 10 provides a list of electronic inventions according to subject, while Chapter 11 provides a concise description of each invention by date order. Chapter 12 enumerates the inventors of electronic devices. The last chapter provides a list of books about inventions and inventors. This book will appeal to readers who are curious about the development of electronics throughout history.

This volume presents realistic estimates for the level of fuel economy that is achievable in the next decade for cars and light trucks made in the United States and Canada. A source of objective and comprehensive information on the topic, this book takes into account real-world factors such as the financial conditions in the automotive industry, costs and benefits to consumers, and marketability of high-efficiency vehicles. The committee is composed of experts from the fields of science, technology, finance, and regulation and offers practical evaluations of technological improvements that could contribute to increased fuel efficiency. The volume also examines potential barriers to improvement, such as high production costs, regulations on safety and emissions, and consumer preferences. This practical book is of considerable interest to car and light truck manufacturers, policymakers, federal and state agencies, and the public.

Easy to use work book designed for independent retailers. Full of self assessment tools and recommendations for improving retail branding, interior and exterior store design and retail marketing.

Small- Signal Audio Design is an essential for audio equipment designers and engineers for one simple reason; it enables you as a professional to develop reliable, high-performance circuits. This practical handbook not only teaches you the basic fundamentals but shows you how to apply opamps and discrete transistors in the preamplifier and signal-processing areas of audio and other low-frequency areas. It provides you with the necessary in-depth information, with presentations on the technologies that power the equipment- hi-fi preamplifiers, audio mixers, electronic crossovers, among others. Full of valuable information it includes exceptional audio mixer material, based on the authors 19 year design experience, revealing a lot of

specialized information that has never been published before. Get answers to your most critical questions, insight into development techniques, and best-practices on optimizing features that will define your product's success.

This book is the second edition of Soft Actuators, originally published in 2014, with 12 chapters added to the first edition. The subject of this new edition is current comprehensive research and development of soft actuators, covering interdisciplinary study of materials science, mechanics, electronics, robotics, and bioscience. The book includes contemporary research of actuators based on biomaterials for their potential in future artificial muscle technology. Readers will find detailed and useful information about materials, methods of synthesis, fabrication, and measurements to study soft actuators. Additionally, the topics of materials, modeling, and applications not only promote the further research and development of soft actuators, but bring benefits for utilization and industrialization. This volume makes generous use of color figures, diagrams, and photographs that provide easy-to-understand descriptions of the mechanisms, apparatus, and motions of soft actuators. Also, in this second edition the chapters on modeling, materials design, and device design have been given a wider scope and made easier to comprehend, which will be helpful in practical applications of soft actuators. Readers of this work can acquire the newest technology and information about basic science and practical applications of flexible, lightweight, and noiseless soft actuators, which differ from conventional mechanical engines and electric motors. This new edition of Soft Actuators will inspire readers with fresh ideas and encourage their research and development, thus opening up a new field of applications for the utilization and industrialization of soft actuators.