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Data Conversion Handbook Jan 04 2023 This comprehensive handbook is a one-stop engineering reference. Covering data converter fundamentals, techniques, applications, and beginning with the basic theoretical elements necessary for a complete understanding of data converters, this reference covers all the latest advances in the field. This text describes in depth the theory behind and the practical design of data conversion circuits as well as describing the different architectures used in A/D and D/A converters. Details are provided on the design of high-speed ADCs, high accuracy DACs and ADCs, and sample-and-hold amplifiers. Also, this reference covers voltage sources and current reference, noise-shaping coding, and sigma-delta converters, and much more. The book's 900-plus pages are packed with design information and application circuits, including guidelines on selecting the most suitable converters for particular applications. You'll find the very latest information on: · Data converter fundamentals, such as key specifications, noise, sampling, and testing · Architectures and processes, including SAR, flash, pipelined, folding, and more · Practical hardware design techniques for mixed-signal systems, such as driving ADCs, buffering DAC outputs, sampling clocks, layout, interfacing, support circuits, and tools. · Data converter applications dealing with precision measurement, data acquisition, audio, display, DDS, software radio and many more. The accompanying CD-ROM provides software tools for testing and analyzing data converters as well as a searchable pdf version of the text. * Brings together a huge amount of information impossible to locate elsewhere. * Many recent advances in converter technology simply aren't covered in any other book. * A must-have design reference for any electronics design engineer or technician.
Papers on Mechanical and Physical Subjects Apr 14 2021
Adaptive Multi-Standard RF Front-Ends May 08 2023 This book investigates solutions, benefits, limitations, and costs associated with multi-standard operation of RF front-ends and their ability to adapt to variable radio environments. Next, it highlights the optimization of RF front-ends to allow maximum performance within a certain power budget, while targeting full integration. Finally, the book investigates possibilities for low-voltage, low-power circuit topologies in CMOS technology.
Optical Communication Receiver Design May 28 2022 This tutorial text provides an overview of design principles for receivers, based on courses for practising engineers. Contents: optical communications; system performance; photodetection; photodetectors; noise modelling; front-end design; performance analysis.
The Automobile Engineer Dec 11 2020
Marine Engineering Aug 31 2022
Marine Engineering (a Text-book) Apr 07 2023
A Handbook of Engine and Boiler Trials and of the Indicator and Prony Brake Sep 07 2020
Papers on Mechanical and Physical Subjects Mar 14 2021
Principles of Automotive Vehicles Dec 23 2021
Intellectual Property for Electronic Systems Nov 09 2020 Featuring articles by top experts from such companies as Rambus, IBM, Hewlett-Packard, and FreeScale, this collection addresses the issues that concern those in the ICT field looking to keep systems safe and secure without sacrificing quality or ease of use. This book cogently addresses verification, standards, handoff, and legal issues to create a comprehensive look at one of the most important, yet sometimes under-appreciated, topics in the industry.
Optical Wireless Communications Sep 19 2021 Over the last three decades, interest in Infrared (IR) technology as a medium to convey information has grown considerably. This is reflected by the increasing number of devices such as laptops, PDAs, and mobile phones that incorporate optical wireless transceivers and also by the increasing number of optical wireless links available for indoor and
1881-1900 Jun 16 2021
Practical Engineer Feb 05 2023
The Elements of Machine Design ...: Chiefly on engine details, by W. C. Unwin and A. L. Mellanby Feb 22 2022
Indicator Diagrams and Engine and Boiler Testing Oct 21 2021
Wearable Systems and Antennas Technologies for 5G, IOT and Medical Systems Jun 28 2022 Due to progress in the development of communication systems, it is now possible to develop low-cost wearable communication systems. A wearable antenna is meant to be a part of the clothing or close to the body and used for communication purposes, which include tracking and navigation, mobile computing and public safety. Examples include smartwatches (with integrated Bluetooth antennas), glasses (such as Google Glass with Wi-Fi and GPS antennas), GoPro action cameras (with Wi-Fi and Bluetooth antennas), etc. They are increasingly common in consumer electronics and for healthcare and medical applications. However, the development of compact, efficient wearable antennas is one of the major challenges in the development of wearable communication and medical systems. Technologies such as printed compact antennas and miniaturization techniques have been developed to create efficient, small wearable antennas which are the main objective of this book. Each chapter covers enough mathematical detail and explanations to enable electrical, electromagnetic and biomedical engineers and students and scientists from all areas to follow and understand the topics presented. New topics and design methods are presented for the first time in the area of wearable antennas, metamaterial antennas and fractal antennas. The book covers wearable antennas, RF measurements techniques and measured results in the vicinity of the human body, setups and design considerations. The wearable antennas and devices presented in this book were analyzed by using HFSS and ADS 3D full-wave electromagnetics software. Explores wearable medical systems and antennas Explains the design and development of wearable communication systems Explores wearable reconfigurable antennas for communication and medical applications Discusses new types of metamaterial antennas and artificial magnetic conductors (AMC) Reviews textile antennas Dr. Albert Sabban holds a PhD in Electrical Engineering from the University of Colorado at Boulder, USA (1991), and an MBA from the Faculty of Management, Haifa University, Israel (2005). He is currently a Senior Lecturer and researcher at the Department of Electrical and Electronic Engineering at Kinneret and Ort Braude Engineering Colleges.
Construction and Evolution of Code Generators Dec 31 2019 Automatic code generation is an essential cornerstone of model-driven approaches to software development. Currently, lots of techniques are available that support the specification and implementation of code generators, such as engines based on templates or rule-based transformations. All those techniques have in common that code generators are either directly

programmed or described by means of textual specifications. This monograph presents Genesys, a general approach, which advocates the graphical development of code generators for arbitrary source and target languages, on the basis of models and services. In particular, it is designed to support incremental language development on arbitrary metalevels. The use of models allows building code generators in a truly platform-independent and domain-specific way. Furthermore, models are amenable to formal verification methods such as model checking, which increase the reliability and robustness of the code generators. Services enable the reuse and integration of existing code generation frameworks and tools regardless of their complexity, and at the same time manifest as easy-to-use building blocks which facilitate agile development through quick interchangeability. Both, models and services, are reusable and thus form a growing repository for the fast creation and evolution of code generators.

A Text-book of Marine Engineering Mar 06 2023

Transactions Nov 02 2022

Automobile Engineer Jan 12 2021

Optical Fiber Communications Systems Jan 30 2020 Carefully structured to provide practical knowledge on fundamental issues, Optical Fiber Communications Systems: Theory and Practice with MATLAB and Simulink Models explores advanced modulation and transmission techniques of lightwave communication systems. With coverage ranging from fundamental to modern aspects, the text presents optical communic

Engineering News Feb 10 2021

Designing, Cutting and Grading Boot and Shoe Patterns, and Complete Manual for the Stitching Room Jan 24 2022 First published in 1897, this volume is a complete guide to designing and cutting boot and shoe patterns, published with the novice in mind. Written in simple, clear language and profusely illustrated, this volume will be of considerable utility of those with a practical interest in shoemaking, and it is not to be missed by collectors of vintage literature of this ilk. Contents include: “Moulding the Last”, “Getting and Dissecting the Standard”, “A Lady's Dongola Boot—Buttons in Right Position”, “The Cloth Lining and Button Fly—Vamping Through Linings—Getting the Button Fly”, “Circular Vamp—Rounding off Corners”, “Button Fly and Top Facing—A Popular Foxing”, “Woman's Dongola Beaded Vamp Gypsy Button Boot”, etc. Many vintage books such as this are becoming increasingly scarce and expensive. We are republishing this volume now in an affordable, modern, high-quality addition complete with a specially commissioned new introduction on history of shoemaking.

Proceedings of the 28th Conference of Spacecraft TT&C Technology in China May 04 2020 This book collects selected papers from the 28th Conference of Spacecraft TT&C Technology in China held on November 8-10, 2016. The book features state-of-the-art studies on spacecraft TT&C in China with the theme of “Openness, Integration and Intelligent Interconnection”. To meet requirements of new space endeavors, development of spacecraft instrumentation systems have to follow an open concept and approach in China. An open spacecraft instrumentation system encompasses integrated development of different types of services, integration of disciplines and specialties, intelligent links, and more scientific and intelligent information interface technology. Researchers and engineers in the field of aerospace engineering and communication engineering can benefit from the book.

Papers on Mechanical and Physical Subjects: 1881-1900 May 16 2021

Nuclear Fusion by Inertial Confinement Aug 07 2020 Nuclear Fusion by Inertial Confinement provides a comprehensive analysis of directly driven inertial confinement fusion. All important aspects of the process are covered, including scientific considerations that support the concept, lasers and particle beams as drivers, target fabrication, analytical and numerical calculations, and materials and engineering considerations. Authors from Australia, Germany, Italy, Japan, Russia, Spain, and the U.S. have contributed to the volume, making it an internationally significant work for all scientists working in the Inertial Confinement Fusion (ICF) field, as well as for graduate students in engineering and physics with interest in ICF.

The Elements of Machine Design ...: Chiefly on engine details. New ed., rev. and enl Mar 26 2022

Proceedings of the American Railway Association Mar 02 2020

Chiefly on engine details Aug 19 2021

The Elements of Machine Design. ...: Chiefly on engine details. 1907. xiv, 431 p. 259 illus. incl. diagrs Nov 21 2021

Transactions - North of England Institute of Mining and Mechanical Engineers Oct 01 2022 Includes annual reports and lists of members of the institute.

Data Conversion Handbook Jul 30 2022 This complete update of a classic handbook originally created by Analog Devices and never previously published offers the most complete and up-to-date reference available on data conversion, from the world authority on the subject. It describes in depth the theory behind and the practical design of data conversion circuits. It describes the different architectures used in A/D and D/A converters - including many advances that have been made in this technology in recent years - and provides guidelines on which types are best suited for particular applications. It covers error characterization and testing specifications, essential design information that is difficult to find elsewhere. The book also contains a wealth of practical application circuits for interfacing and supporting A/D and D/A converters within an electronic system. In short, everything an electronics engineer needs to know about data converters can be found in this volume, making it an indispensable reference with broad appeal. The accompanying CD-ROM provides software tools for testing and analyzing data converters as well as a searchable pdf version of the text. * brings together a huge amount of information impossible to locate elsewhere. * many recent advances in converter technology simply aren't covered in any other book. * a must-have design reference for any electronics design engineer or technician

Engineering News-record Jul 06 2020

Wideband RF Technologies and Antennas in Microwave Frequencies Apr 26 2022 Presents wideband RF technologies and antennas in the microwave band and millimeter-wave band This book provides an up-to-date introduction to the technologies, design, and test procedures of RF components and systems at microwave frequencies. The book begins with a review of the elementary electromagnetics and antenna topics needed for students and engineers with no basic background in electromagnetic and antenna theory. These introductory chapters will allow readers to study and understand the basic design principles and features of RF and communication systems for communications and medical applications. After this introduction, the author examines MIC, MMIC, MEMS, and LTCC technologies. The text will also present information on meta-materials, design of microwave and mm wave systems, along with a look at microwave and mm wave receivers, transmitters and antennas. Discusses printed antennas for wireless communication systems and wearable antennas for communications and medical applications Presents design considerations with both computed and measured results of RF communication modules and CAD tools Includes end-of-chapter problems and exercises Wideband RF Technologies and Antennas in Microwave Frequencies is designed to help electrical engineers and undergraduate students to understand basic communication and RF systems definition, electromagnetic and antennas theory and fundamentals with minimum integral and differential equations. Albert Sabban, PhD, is a Senior Researcher and Lecturer at Ort Braude College Karmiel Israel. Dr. Sabban was RF and antenna specialist at communication and Biomedical Hi-tech Companies. He designed wearable compact antennas to medical systems. From 1976 to 2007, Dr. Albert Sabban worked as a senior R&D scientist and project leader in RAFAEL.

Integrated Formal Methods Dec 03 2022 This book constitutes the refereed proceedings of the 11th International Conference on Integrated Formal Methods, IFM 2014, held in Bertinoro, Italy, in September 2014. The 21 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 43 submissions. The papers have been organized in the following topical sections: tool integration; model verification; program development; security analysis; analysis and transformation; and concurrency and control.
Minutes of Proceedings of the Institution of Civil Engineers Jul 18 2021 Vols. 39-214 (1874/75-1921/22) have a section 2 containing "Other selected papers"; issued separately, 1923-35, as the institution's Selected engineering papers.
American Machinist Jun 04 2020
Quality, Reliability, Security and Robustness in Heterogeneous Systems Oct 09 2020 This book constitutes the refereed post-conference proceedings of the 15th EAI International Conference on Quality, Reliability, Security and Robustness in Heterogeneous Networks, QShine 2020, held in November 2020. Due to COVID-19 pandemic the conference was held virtually. The 19 revised full papers were carefully reviewed and selected from 49 submissions. The papers are organized thematically in tracks on Network Reliability and Security an Emerging Applications
The Railway and Engineering Review Apr 02 2020

- Optical Fiber Communications Systems
- Construction And Evolution Of Code Generators