

Elektor Electronics 311 Circuits

Right here, we have countless book **Elektor Electronics 311 Circuits** and collections to check out. We additionally pay for variant types and also type of the books to browse. The all right book, fiction, history, novel, scientific research, as skillfully as various new sorts of books are readily easily reached here.

As this Elektor Electronics 311 Circuits , it ends up visceral one of the favored book Elektor Electronics 311 Circuits collections that we have. This is why you remain in the best website to look the unbelievable ebook to have.

Secrets of RF Circuit Design - Joseph J. Carr
2001-01-01

BUILD THE CIRCUITS THAT MAKE WIRELESS WORK If you like hands-on electronics, you'll love *Secrets of RF Circuit Design*, Third Edition, by Popular Electronics writer Joe Carr. This update of the favorite RF circuit guide of thousands of electronics enthusiasts takes you inside wireless technology with step-by-step, illustrated directions for dozens of usable projects. This super guide demonstrates RF theory as it shows you how to overcome the technical and materials challenges facing those who build real-world electronics. You learn how to design and build receiver circuits, RF bridges, amplifiers, receiver preselectors, simple spectrum analyzers, and time domain reflectometers. You get detailed insights into simple RF instruments, as well as UHF and microwave components...complete troubleshooting guidance...and handy parts lists and components sources. This new edition packs the latest information on directional and hybrid couplers, and seven new chapters on demodulators, circuit vectors, measuring L-C circuits, and filtering circuits against EMI. "...a great book on wireless technology for persons starting out in RF electronics, as well as for RF technicians and ham radio operators." ---Cotter W. Sayre, author of *The Complete RF Technician's Handbook* (Amazon.com review)
Raspberry Pi Full Stack - Peter Dalmaris 2020

311 Circuits - Elektor Electronics (Firm) 2011
This is the twelfth book in Elektor's celebrated '300' series. An immense source of inspiration for all electronics enthusiasts and professionals,

this book deserves a place not far from the workbench. The book contains circuits, design ideas, tips and tricks from all areas of electronics: audio & video, computers & microcontrollers, radio, hobby & modelling, home & garden, power supplies & batteries, test & measurement, software, not forgetting a section miscellaneous for everything that does not fit in one of the other categories. This book presents complete solutions for numerous problems, as well as starting points for your own creations. "311 Circuits" has been compiled from the 2009, 2010 and 2011 'Summer Circuits' double editions of Elektor magazine. The book is mostly based on readers' contributions, supplemented by circuits engineered and developed in the Elektor Labs.

Raspberry Pi for Radio Amateurs - Ibrahim Dogan 2020-11-09

Audio Power Amplifier Design - Douglas Self
2013-07-04

This book is essential for audio power amplifier designers and engineers for one simple reason...it enables you as a professional to develop reliable, high-performance circuits. The Author Douglas Self covers the major issues of distortion and linearity, power supplies, overload, DC-protection and reactive loading. He also tackles unusual forms of compensation and distortion produced by capacitors and fuses. This completely updated fifth edition includes four NEW chapters including one on The XD Principle, invented by the author, and used by Cambridge Audio. Crosstalk, power amplifier input systems, and microcontrollers in amplifiers are also now discussed in this fifth edition,

making this book a must-have for audio power amplifier professionals and audiophiles.

Telecommunication Journal - 1988

Practical Audio Electronics - Kevin Robinson
2020-02-10

Practical Audio Electronics is a comprehensive introduction to basic audio electronics and the fundamentals of sound circuit building, providing the reader with the necessary knowledge and skills to undertake projects from scratch. Imparting a thorough foundation of theory alongside the practical skills needed to understand, build, modify, and test audio circuits, this book equips the reader with the tools to explore the sonic possibilities that emerge when electronics technology is applied innovatively to the making of music. Suitable for all levels of technical proficiency, this book encourages a deeper understanding through highlighted sections of advanced material and example projects including circuits to make, alter, and amplify audio, providing a snapshot of the wide range of possibilities of practical audio electronics. An ideal resource for students, hobbyists, musicians, audio professionals, and those interested in exploring the possibilities of hardware-based sound and music creation.

Radio Receiver Technology - Ralf Rudersdorfer
2013-12-03

Written by an expert in the field, this book covers the principles, architectures, applications, specifications and characterizations of radio receivers. In this book, the author introduces the reader to the basic principles and theories of present-day communications receiver technology. The first section of the book presents realization concepts at the system level, taking into consideration the various types of users. Details of the circuitry are described providing the reader with an understanding of fully digitized radio receivers, offering an insight into the state-of-the-art. The remaining sections address radio receivers, particularly as two-port devices. Furthermore, the author outlines the fields of applications (with sample calculations and with reference to practical work) and their features and considers also the specialty of high-quality radio receivers. As can be seen from the multitude of terrestrial applications described in Part II, they are typically used for radio

surveillance, signal intelligence, modern radio bearing and at the classical radio services. Parts III and IV describe the entire range of parameters that are useful for the characterization of these receivers. The description starts from the physical effect, or the explanation of the individual parameter, and then proceeds to the measuring technique for determining the parameters, highlighting problems, followed by explanatory notes with applicatory relevance. The measuring procedures described are the result of experiences gained in extended laboratory work and practical testing. With the model shown in Part IV, used for the operational evaluation detailing the intrinsic small range of interpretation, the book covers untreated research in the field. The Appendix provides among others valuable information about the dimensioning of receiving systems and the mathematical derivation of non-linear effects and as well as a useful method for converting different levels specifications. Key Features: Introduces the basic principles and theories of present-day technology Discusses concepts at system level (aligned to the various types of users) Addresses (fully) digitized radio receivers focusing on the state-of-the-art Close contacts to the industry were utilized to show background information Enables the reader to comprehend and evaluate the characteristic features and the performance of such systems Examines the entire range of parameters that are characteristic of the technology including the physical effect and measuring techniques Includes results of experiences gained in extended laboratory work and practical testing with examples Provides a uniform and systematic approach for ease of understanding e.g. many didactic figures for the visual illustration have been newly created as well as complete real-world examples This book will be an excellent resource to understand the principles of work, for professionals developing and testing radio receivers, for receiver users (e.g. at regulatory agencies, surveillance centers, secret services, classical radiocommunications services), technicians, engineers and technicians who work with RF-measurement instruments, postgraduate students studying in the field and

university lecturers. Chartered radioamateurs and handlers/operators will also find this book insightful. Due to high level of detail, it also serves as a reference. By using the carefully edited alphabetical index with over 1,200 entries, the appropriate explanations can be found quickly in the text.

RDS - Dietmar Kopitz 1999

Authored by two leading experts in Radio Data System (RDS) technology, this book provides easy access to information on RDS technology, specifications, and implementation in one authoritative reference. The authors, who are key figures in the development of RDS and RDS-TMC technology, use a step-by-step approach to overview the background, techniques, capabilities, and limits of these systems.

308 Circuits - Jan Buiting 2003

This is the ninth in the 300 series of circuit design books, again contains a wide range of circuits, tips and design ideas. The book has been divided into sections, making it easy to find related subjects in a single category. The book not only details DIY electronic circuits for home construction but also inspiring ideas for projects you may want to design from the ground up. Because software in general and microcontroller programming techniques in particular have become key aspects of modern electronics, a number of items in this book deal with these subjects only. Like its predecessors in the 300 series, "308 Circuits" covers the following disciplines and interest fields of modern electronics: test and measurement, radio and television, power supplies and battery chargers, general interest, computers and microprocessors, circuit ideas and audio and hi-fi.

Balanced Phono-Amps - Burkhard Vogel
2015-08-14

This book presents the design, analysis and testing of fully balanced RIAA phono amps and measurement tools. The content of this book extends a standard reference about RIAA phono amps "the sound of silence" by Burkhard Vogel. Here, the gap is filled between a semi-balanced engine (RIAA Phono-Amp Engine I) and a fully balanced engine, the RIAA Phono-Amp Engine II. In this new book on hand, "fully balanced" means that each phono-amp stage ends up in a balanced - or in other words symmetrical -

solution, differentially amplified. Un-balanced / single-ended solutions are not in the scope.

Radio-electronics - 1978

Benn's Media - 1994

Audio Power Amplifier Design Handbook -

Douglas Self 2006-07-04

First Published in 2006. Routledge is an imprint of Taylor & Francis, an informa company.

Robot Builder's Sourcebook - Gordon McComb
2003

* A much-needed clearinghouse for information on amateur and educational robotics, containing over 2,500 listings of robot suppliers, including mail order and local area businesses * Contains resources for both common and hard-to-find parts and supplies * Features dozens of "sidebars" to clarify essential robotics technologies * Provides original articles on various robot-building topics

The Art and Science of Analog Circuit Design - Jim Williams 1998-08-24

In this companion text to *Analog Circuit Design: Art, Science, and Personalities*, seventeen contributors present more tutorial, historical, and editorial viewpoints on subjects related to analog circuit design. By presenting divergent methods and views of people who have achieved some measure of success in their field, the book encourages readers to develop their own approach to design. In addition, the essays and anecdotes give some constructive guidance in areas not usually covered in engineering courses, such as marketing and career development. *Includes visualizing operation of analog circuits *Describes troubleshooting for optimum circuit performance *Demonstrates how to produce a saleable product

The Sound of Silence - Burkhard Vogel
2011-07-30

There is a wide field of tasks left that can only be satisfyingly attacked with the help of old-fashioned analogue technology, and one of the most important are amplifiers for analogue signals. The strongly expanded content of the second edition of "the sound of silence" leads to affordable amplifier design approaches which will end up in lowest-noise solutions not far away from the edge of physical boundaries set by room temperature and given cartridges - thus,

fully compatible with very expensive so called "high-end" or "state-of-the-art" offers on today markets - and, from a noise point of view in most cases outperforming them! With easy to follow mathematical treatment it is demonstrated as well that theory is not far away from reality. Measured SNs will be found within 1dB off the calculated ones and deviations from the exact amplifier transfer won't cross the ± 0.1 dB tolerance lines. Additionally, the book presents measurement set-ups and results. Consequently, comparisons with measurement results of test magazine will soon become easier to perform. This new edition includes a new chapters about reference levels, Noise in Amp Input sections, Humming Problems, and much more.

Programming with STM32: Getting Started with the Nucleo Board and C/C++ - Donald Norris
2018-03-21

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Create your own STM32 programs with ease! Get up and running programming the STM32 line of microcontrollers from STMicroelectronics using the hands-on information contained in this easy-to-follow guide. Written by an experienced electronics hobbyist and author, *Programming with STM32: Getting Started with the Nucleo Board and C/C++* features start-to-finish projects that clearly demonstrate each technique. Discover how to set up a stable development toolchain, write custom programs, download your programs to the development board, and execute them. You will even learn how to work with external servos and LED displays!

- Explore the features of STM32 microcontrollers from STMicroelectronics
- Configure your Nucleo-64 Microcontroller development board
- Establish a toolchain and start developing interesting applications
- Add specialized code and create cool custom functions
- Automatically generate C code using the STM32CubeMX application
- Work with the ARM Cortex Microcontroller Software Interface Standard and the STM hardware abstraction layer (HAL).
- Control servos, LEDs, and other hardware using PWM
- Transfer data to and from peripheral devices using DMA
- Generate waveforms and pulses through

your microcontroller's DAC

Building Your Own Electronics Lab - Dale Wheat 2012-09-25

What should an electronics hackerspace look like? Is it in your bedroom, garage, a classroom, or even a suitcase? And where do you start? What parts are essential, and which are just nice to have? And how do you organize it all? Dale Wheat, the author of *Arduino Internals*, will show you how to build your own electronics lab complete with tools, parts, and power sources. You'll learn how to create a portable lab, a small lab to save space, and even a lab for small groups and classrooms. You'll learn which parts and tools are indispensable no matter what type projects you're working on: which soldering irons are best, which tools, cables, and testing equipment you'll need. You'll also learn about different chips, boards, sensors, power sources, and which ones you'll want to keep on hand. Finally, you'll learn how to assemble everything for the type of lab best suited to your needs. If you need to carry everything to your local makerspace, you can build the Portable Lab. If you plan to tinker at home or in the garage, there is the Corner Lab. If you're going to run your own local makerspace or you need to set up a lab to teach others, there is the Small-Group Lab. No matter what your gadgeteering needs may be, *Building Your Own Electronics Lab* will show you exactly how to put it all together so you have what you need to get started.

Beginning Artificial Intelligence with the Raspberry Pi - Donald J. Norris 2017-06-05

Gain a gentle introduction to the world of Artificial Intelligence (AI) using the Raspberry Pi as the computing platform. Most of the major AI topics will be explored, including expert systems, machine learning both shallow and deep, fuzzy logic control, and more! AI in action will be demonstrated using the Python language on the Raspberry Pi. The Prolog language will also be introduced and used to demonstrate fundamental AI concepts. In addition, the Wolfram language will be used as part of the deep machine learning demonstrations. A series of projects will walk you through how to implement AI concepts with the Raspberry Pi. Minimal expense is needed for the projects as only a few sensors and actuators will be required. Beginners and hobbyists can jump

right in to creating AI projects with the Raspberry Pi using this book. What You'll Learn What AI is and—as importantly—what it is not Inference and expert systems Machine learning both shallow and deep Fuzzy logic and how to apply to an actual control system When AI might be appropriate to include in a system Constraints and limitations of the Raspberry Pi AI implementation Who This Book Is For Hobbyists, makers, engineers involved in designing autonomous systems and wanting to gain an education in fundamental AI concepts, and non-technical readers who want to understand what AI is and how it might affect their lives.

Encyclopedia of Electronic Circuits - Rudolf F. Graf 1995

Diagrams and describes the basic circuits used in alarms, switches, voltmeters, battery chargers, modulators, receivers, transmitters, oscillators, amplifiers, converters, pulse generators, and field strength meters

Surface Mount Technology - Ray Prasad 2013-11-27

A foreword is usually prepared by someone who knows the author or who knows enough to provide additional insight on the purpose of the work. When asked to write this foreword, I had no problem with what I wanted to say about the work or the author. I did, however, wonder why people read a foreword. It is probably of value to know the background of the writer of a book; it is probably also of value to know the background of the individual who is commenting on the work. I consider myself a good friend of the author, and when I was asked to write a few words I felt honored to provide my view of Ray Prasad, his expertise, and the contribution that he has made to our industry. This book is about the industry, its technology, and its struggle to learn and compete in a global market bursting with new ideas to satisfy a voracious appetite for new and innovative electronic products. I had the good fortune to be there at the beginning (or almost) and have witnessed the growth and excitement in the opportunities and challenges afforded the electronic industries' engineering and manufacturing talents. In a few years my involvement will span half a century.

Sport Stretch - Michael J. Alter 1998

Improve your flexibility and reach your athletic

potential. Sport Stretch shows you how with stretching programs for 41 sports.

307 Circuits - Jan Buiting 2000

307 Circuits, the eighth in the 300 series of circuit design books, is a compilation of applications, projects, circuits and tips originally published in the July/August and December issues of Elektor Electronics magazine. This book brings the total of published designs in the 300 series to well over 2300. Books in the 300 series are popular with engineers, students, teachers, hobbyists and other electronics enthusiasts all over the world. Like its predecessors, 307 Circuits offers a galaxy of designs covering the entire field of modern electronics. The book is divided into five sections: Audio and hi-fi; Computers and microprocessors; General interest; Power supplies and battery charges; Radio, television and communications; Test and measurements. Many designs and projects are complemented with a printed circuit board (PCB) layout to aid in their construction. Others are complete with control software which may be ordered from the Publishers.

Amplifier Circuits - Rudolf F. Graf 1997

Provides designers with quick reference guides to various types of circuits; comes with 250-300 ready-to-use designs, with schematics and explanations.

The Design of Active Crossovers - Douglas Self 2012-08-06

The Design of Active Crossovers is a unique guide to the design of high-quality circuitry for splitting audio frequencies into separate bands and directing them to different loudspeaker drive units specifically designed for handling their own range of frequencies. Traditionally this has been done by using passive crossover units built into the loudspeaker boxes; this is the simplest solution, but it is also a bundle of compromises. The high cost of passive crossover components, and the power losses in them, means that passive crossovers have to use relatively few parts. This limits how well the crossover can do its basic job. Active crossovers, sometimes called electronic crossovers, tackle the problem in a much more sophisticated manner. The division of the audio into bands is performed at low signal levels, before the power amplifiers, where it can be done with much

greater precision. Very sophisticated filtering and response-shaping networks can be built at comparatively low cost. Time-delay networks that compensate for physical misalignments in speaker construction can be implemented easily; the equivalent in a passive crossover is impractical because of the large cost and the heavy signal losses. Active crossover technology is also directly applicable to other band-splitting signal-processing devices such as multi-band compressors. The use of active crossovers is increasing. They are used by almost every sound reinforcement system, by almost every recording studio monitoring set-up, and to a small but growing extent in domestic hifi. There is a growing acceptance in the hifi industry that multi-amplification using active crossovers is the obvious next step (and possibly the last big one) to getting the best possible sound. There is also a large usage of active crossovers in car audio, with the emphasis on routing the bass to enormous low-frequency loudspeakers. One of the very few drawbacks to using the active crossover approach is that it requires more power amplifiers; these have often been built into the loudspeaker, along with the crossover, and this deprives the customer of the chance to choose their own amplifier, leading to resistance to the whole active crossover philosophy. A comprehensive proposal for solving this problem is an important part of this book. The design of active crossovers is closely linked with that of the loudspeakers they drive. A chapter gives a concise but complete account of all the loudspeaker design issues that affect the associated active crossover. This book is packed full of valuable information, with virtually every page revealing nuggets of specialized knowledge never before published. Essential points of theory bearing on practical performance are lucidly and thoroughly explained, with the mathematics kept to an essential minimum. Douglas' background in design for manufacture ensures he keeps a wary eye on the cost of things. Features: Crossover basics and requirements The many different crossover types and how they work Design almost any kind of active filter with minimal mathematics Make crossover filters with very low noise and distortion Make high-performance time-delay filters that give a constant delay over a wide

range of frequency Make a wide variety of audio equaliser stages: shelving, peaking and notch characteristics All about active crossover system design for optimal noise and dynamic range There is a large amount of new material that has never been published before. A few examples: using capacitance multipliers in biquad equalisers, opamp output biasing to reduce distortion, the design of NTMTM notch crossovers, the design of special filters for filler-driver crossovers, the use of mixed capacitors to reduce filter distortion, differentially elevated internal levels to reduce noise, and so on. Douglas wears his learning lightly, and this book features the engaging prose style familiar from his other books *The Audio Power Amplifier Design Handbook*, *Self on Audio*, and the recent *Small Signal Audio Design*.

304 Circuits - Elektor Electronics Publishing
1991-01-01

RFID Handbook - Klaus Finkenzeller
2010-11-04

This is the third revised edition of the established and trusted *RFID Handbook*; the most comprehensive introduction to radio frequency identification (RFID) available. This essential new edition contains information on electronic product code (EPC) and the EPC global network, and explains near-field communication (NFC) in depth. It includes revisions on chapters devoted to the physical principles of RFID systems and microprocessors, and supplies up-to-date details on relevant standards and regulations. Taking into account critical modern concerns, this handbook provides the latest information on: the use of RFID in ticketing and electronic passports; the security of RFID systems, explaining attacks on RFID systems and other security matters, such as transponder emulation and cloning, defence using cryptographic methods, and electronic article surveillance; frequency ranges and radio licensing regulations. The text explores schematic circuits of simple transponders and readers, and includes new material on active and passive transponders, ISO/IEC 18000 family, ISO/IEC 15691 and 15692. It also describes the technical limits of RFID systems. A unique resource offering a complete overview of the large and varied world of RFID, Klaus

Finkenzeller's volume is useful for end-users of the technology as well as practitioners in auto ID and IT designers of RFID products. Computer and electronics engineers in security system development, microchip designers, and materials handling specialists benefit from this book, as do automation, industrial and transport engineers. Clear and thorough explanations also make this an excellent introduction to the topic for graduate level students in electronics and industrial engineering design. Klaus

Finkenzeller was awarded the Fraunhofer-Smart Card Prize 2008 for the second edition of this publication, which was celebrated for being an outstanding contribution to the smart card field.

Low-Noise Electronic System Design - C. D. Motchenbacher 1993-06-29

Whetted to the design needs of engineers of the '90s, this reworking of the classic industry text offers a practical, concrete look at designing low-noise electronic systems with the technological tools of the future. Published originally in 1973 as *Low-Noise Electronic Design*, the first edition was a practical primer for circuit design and system engineers on designing low-level electronic circuits as well as analyzing low-level sensing and measurement systems. Now newly revised as *Low-Noise Electronic System Design*, this new edition unfolds the technological hardware speeding the electronics industry towards a new century.

Electronic Formulas, Symbols and Circuits - Forrest M. Mims 2004-02-01

A complete, basic electronics reference manual that includes component and circuit descriptions, tables, math formulas, schematic symbols.

Electronic Circuits - Mike Tooley 2019-11-08
Electronics explained in one volume, using both theoretical and practical applications. Mike Tooley provides all the information required to get to grips with the fundamentals of electronics, detailing the underpinning knowledge necessary to appreciate the operation of a wide range of electronic circuits, including amplifiers, logic circuits, power supplies and oscillators. The 5th edition includes an additional chapter showing how a wide range of useful electronic applications can be developed in conjunction with the increasingly popular Arduino microcontroller, as well as a

new section on batteries for use in electronic equipment and some additional/updated student assignments. The book's content is matched to the latest pre-degree level courses (from Level 2 up to, and including, Foundation Degree and HND), making this an invaluable reference text for all study levels, and its broad coverage is combined with practical case studies based in real-world engineering contexts. In addition, each chapter includes a practical investigation designed to reinforce learning and provide a basis for further practical work. A companion website at <http://www.key2electronics.com> offers the reader a set of spreadsheet design tools that can be used to simplify circuit calculations, as well as circuit models and templates that will enable virtual simulation of circuits in the book. These are accompanied by online self-test multiple choice questions for each chapter with automatic marking, to enable students to continually monitor their own progress and understanding. A bank of online questions for lecturers to set as assignments is also available.

Electronics Simplified - Ian Sinclair 2011-05-17
. Explains electronics from fundamentals to applications - no other book has such breadth of coverage . Approachable, clear writing style with minimal math - no previous knowledge of electronics required! . Now fully revised and updated to include coverage of the latest developments in electronics: Blu-ray, HD, 3D TV, digital TV and radio, miniature computers, robotic systems and more
Electronics Simplified (previously published as *Electronics Made Simple*) is essential reading for students embarking on courses involving electronics, anyone whose job involves electronic technology or equipment, and anyone who wants to know more about the electronics revolution. No previous knowledge is assumed and by focusing on how systems work, rather than on details of circuit diagrams and calculations, this book introduces readers to the key principles and technology of modern electronics without needing access to expensive equipment or laboratories. This approach also enables students to gain a firm grasp of the principles they will be applying in the lab.

Fundamentals of Instrumentation and Measurement - Dominique Placko 2013-03-01

This title presents the general principles of instrumentation processes. It explains the theoretical analysis of physical phenomena used by standard sensors and transducers to transform a physical value into an electrical signal. The pre-processing of these signals through electronic circuits - amplification, signal filtering and analog-to-digital conversion - is then detailed, in order to provide useful basic information. Attention is then given to general complex systems. Topics covered include instrumentation and measurement chains, sensor modeling, digital signal processing and diagnostic methods and the concept of smart sensors, as well as microsystem design and applications. Numerous industrial examples punctuate the discussion, setting the subjects covered in the book in their practical context.

Self on Audio - Doug Self 2006-06-29

Whether you are a dedicated audiophile who wants to gain a more complete understanding of the design issues behind a truly great amp, or a professional electronic designer seeking to learn more about the art of amplifier design, there can be no better place to start than with the 35 classic magazine articles collected together in this book. Douglas Self offers a tried and tested method for designing audio amplifiers in a way that improves performance at every point in the circuit where distortion can creep in - without significantly increasing cost. Through the articles in this book, he takes readers through the causes of distortion, measurement techniques, and design solutions to minimise distortion and efficiency. Most of the articles are based round the design of a specific amplifier, making this book especially valuable for anyone considering building a Self amplifier from scratch. Self is senior designer with a high-end audio manufacturer, as well as a prolific and highly respected writer. His career in audio design is reflected in the articles in this book, originally published in the pages of *Electronics World* and *Wireless World* over a 25 year period. An audio amp design cookbook, comprising 35 of Douglas Self's definitive audio design articles. Complete designs for readers to build and adapt. An anthology of classic designs for electronics enthusiasts, Hi-Fi devotees and professional designers alike.

Product Lifecycle Management in the

Digital Twin Era - Clement Fortin 2020-02-28

This book constitutes the refereed post-conference proceedings of the 16th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2019, held in Moscow, Russia, in July 2019. The 38 revised full papers presented were carefully reviewed and selected from 63 submissions. The papers are organized in the following topical sections: 3D modelling and data structures; PLM maturity and industry 4.0; ontologies and semantics; PLM and conceptual design; knowledge and change management; IoT and PLM; integrating manufacturing realities; and integration of in-service and operation.

Gallium Nitride Power Devices - Hongyu Yu 2017-07-06

GaN is considered the most promising material candidate in next-generation power device applications, owing to its unique material properties, for example, bandgap, high breakdown field, and high electron mobility. Therefore, GaN power device technologies are listed as the top priority to be developed in many countries, including the United States, the European Union, Japan, and China. This book presents a comprehensive overview of GaN power device technologies, for example, material growth, property analysis, device structure design, fabrication process, reliability, failure analysis, and packaging. It provides useful information to both students and researchers in academic and related industries working on GaN power devices. GaN wafer growth technology is from Enkris Semiconductor, currently one of the leading players in commercial GaN wafers. Chapters 3 and 7, on the GaN transistor fabrication process and GaN vertical power devices, are edited by Dr. Zhihong Liu, who has been working on GaN devices for more than ten years. Chapters 2 and 5, on the characteristics of polarization effects and the original demonstration of AlGaIn/GaN heterojunction field-effect transistors, are written by researchers from Southwest Jiaotong University. Chapters 6, 8, and 9, on surface passivation, reliability, and package technologies, are edited by a group of researchers from the Southern University of Science and Technology of China.

Small Signal Audio Design - Douglas Self 2010
This title is essential for audio equipment

designers and engineers for one simple reason; it enables you as a professional to develop reliable, high-performance circuits.

Oscillator Circuits - Rudolf F. Graf 1996-12-15

This series of circuits provides designers with a quick source for oscillator circuits. Why waste time paging through huge encyclopedias when you can choose the topic you need and select any of the specialized circuits sorted by application? This book in the series has 250-300 practical, ready-to-use circuit designs, with schematics and brief explanations of circuit operation. The original source for each circuit is

listed in an appendix, making it easy to obtain additional information. Ready-to-use circuits Grouped by application for easy look-up Circuit source listings

British Books in Print - 1979

Encyclopedia of Electronic Circuits, Volume 7 - William Sheets 1999

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product.