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## JONAS CASSIUS

The Design of Modern Microwave Oscillators for Wireless Applications Prentice Hall

This is the second edition of a very popular 1991 book describing the physics and technology of semiconductor electronic devices exploiting the Hall effect. These are magnetic field sensitive devices such as Hall elements, magnetoresistors, and magnetotransistors. Hall effect devices are commonly used as magnetic field sensors and as means for characterizing semiconductors. The book provides a clear analysis of the relationship between the basic physical phenomena in solids, the appropriate materials characteristics, and the characteristics of Hall effect devices. Particular emphasis is placed on important developments inspired and made possible by recent advances in microelectronics. A special feature of the book is its broad scope. The book provides physical basics of Hall effect devices, clear guidelines for the design of practical Hall elements, detailed descriptions of the best interface electronic circuits, examples of the most successful industrial products in the field, and interesting examples of their applications.

*Measurement Systems and Sensors, Second Edition* Courier Corporation

In this title, a substantial update of his earlier book, *Modern Electronic Test and Measuring Instruments*, the author provides a state-of-the-art review of modern families of digital instruments. For each family he covers internal design, use and applications, highlighting their advantages and limitations from a practical application viewpoint. The book also treats new digital instrument families such as DSOs, Arbitrary Function Generators, FFT analysers and many other common systems used by the test engineers, designers and research scientists.

*Sensors for Measurement and Control* Amer Radio Relay League  
The new edition of the leading resource on designing digital frequency synthesizers from microwave and wireless applications, fully updated to reflect the most modern integrated circuits and semiconductors *Microwave and Wireless Synthesizers: Theory and Design, Second Edition*, remains the standard text on the subject by providing complete and up-to-date coverage of both practical and theoretical aspects of modern frequency synthesizers and their components. Featuring contributions from leading experts in the field, this classic volume describes loop fundamentals, noise and spurious responses, special loops, loop components, multiloop synthesizers, and more. Practical synthesizer examples illustrate the design of a high-performance hybrid synthesizer and performance measurement techniques—offering readers clear instruction on the various design steps and design rules. The second edition includes extensively revised content throughout, including a modern approach to dealing with the noise and spurious response of loops and updated material on digital signal processing and architectures. Reflecting today's technology, new practical and validated examples cover a combination of analog and digital synthesizers and hybrid systems. Enhanced and expanded chapters discuss implementations of direct digital synthesis (DDS) architectures, the voltage-controlled oscillator (VCO), crystal and other high-Q based oscillators, arbitrary waveform generation, vector signal generation, and other current tools and techniques. Now requiring no additional literature to be useful, this comprehensive, one-stop resource: Provides a fully reviewed, updated, and enhanced presentation of microwave and wireless synthesizers Presents a clear mathematical method for designing oscillators for best noise performance at both RF and microwave frequencies Contains new illustrations, figures, diagrams, and examples Includes extensive appendices to aid in calculating phase noise in free-running oscillators, designing VHF and UHF oscillators with CAD software, using state-of-the-art synthesizer chips, and generating millimeter wave frequencies using the delay line principle Containing numerous designs of proven circuits and more than 500 relevant citations from scientific journal and papers, *Microwave and Wireless Synthesizers: Theory and Design, Second Edition*, is a must-have reference for engineers working in the field of radio communication, and the perfect textbook for advanced electrical engineering students.

Digital Techniques for Wideband Receivers Schwartz & Wade  
Abbildender Radarsensier mit sendeseitig geschalteter GruppenantenneCuvillier VerlagData Conversion HandbookNewnes

Single Sideband for the Radio Amateur Wiley-Interscience  
Written as a complementary text to TecQuipment's sensors teaching package, but useful as a stand alone reference, *Sensors*

for Measurement and Control describes the principles and applications of sensors used in engineering.

The ARRL RFI Book John Wiley & Sons

Kurzinhalt: This book provides a unique guide to the fundamental principles, advantages and disadvantages of modelling, measurement devices and measurement error. Presenting both the latest developments and the classical solutions in the field of electrical measurement, this book will be an invaluable reference source for senior students in electrical, electronic and mechanical engineering, together with practising engineers and researchers.

*Data Conversion Handbook* CRC Press

A handbook of analog-to-digital and digital-to-analog converters -- and the circuits and systems that use them -- from the world leader in conversion products.

*Solid State Radio Engineering* CRC Press

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

ELFE at CERN SciTech Publishing

*Thin Film Magnetoresistive Sensors* presents a comprehensive review of thin film magnetoresistive (MR) sensors, including the theory of MR effects as well as the design, fabrication, properties, and applications of MR sensors. With over 1,000 references, the book fully reviews the theory, development, and use of these sensors. It provides essential information about the performance of various kinds of sensors, including permalloy magnetoresistors, spin valve sensors, multilayer sensors, colossal effect sensors, spin dependent tunneling sensors, and magnetoimpedance sensors. Divided into three independent parts, the book first concentrates on the most widely used sensors-anisotropic magnetoresistive sensors (AMR). The second part deals with giant magnetoresistive (GMR) sensors, including those still in development. In the third section, the book describes the applications of MR sensors, especially in data storage systems, industrial measurements, and nondestructive material testing systems.

*Sensor Technology Handbook* John Wiley & Sons

Seven years have passed since the publication of the previous edition of this book. During that time, sensor technologies have made a remarkable leap forward. The sensitivity of the sensors became higher, the dimensions became smaller, the selectivity became better, and the prices became lower. What have not changed are the fundamental principles of the sensor design. They are still governed by the laws of Nature. Arguably one of the greatest geniuses who ever lived, Leonardo Da Vinci, had his own peculiar way of praying. He was saying, "Oh Lord, thanks for Thou do not violate your own laws." It is comforting indeed that the laws of Nature do not change as time goes by; it is just our appreciation of them that is being re?ned. Thus, this new edition examines the same good old laws of Nature that are employed in the designs of various sensors. This has not changed much since the previous edition. Yet, the sections that describe the practical designs are revised substantially. Recent ideas and developments have been added, and less important and nonessential designs were dropped. Probably the most dramatic recent progress in the sensor technologies relates to wide use of MEMS and MEOMS (micro-electro-mechanical systems and micro-electro-opto-mechanical systems). These are examined in this new edition with greater detail. This book is about devices commonly called sensors. The invention of a microprocessor has brought highly sophisticated instruments into our everyday lives.

**The low power scrapbook** Artech House

Provides advice on various types of interference, including

automotive, TVI, computers, lamps, VCRs and stereos

**Biosensors** CRC Press

Suitable for an introductory course or a second course in Instrumentation, this book includes: software-controlled measurements; time interval measurement when the two events occur arbitrarily, and to indicate the order of occurrence, and a practical set up for the time interval measurement; multi-phase sequence indicator; decibel meter; and more.

*Understanding Smart Sensors* IET

*Sensors and Their Applications XII* discusses novel research in the areas of sensors and transducers and provides insight into new and topical applications of this technology. It covers the underlying physics, fabrication technologies, and commercial applications of sensors. Some of the topics discussed include optical sensing, sensing materials, nondestructive monitoring, imaging sensors, system networks, and water quality monitoring.

**Sensors and Their Applications XII** CRC Press

Praise for the First Edition . . . "A unique piece of work, a book for electronics engineering, ingeneral, but well suited and excellently applicable also tobiomedical engineering . . . I recommend it with no reservation,congratulating the authors for the job performed." -IEEEEngineering in Medicine & Biology "Describes a broad range of sensors in practical use and somecircuit designs; copious information about electronic components issupplied, a matter of great value to electronic engineers. A largenumber of applications are supplied for each type of sensordescribed . . . This volume is of considerableimportance."-Robotica In this new edition of their successful book, renowned authoritiesRamon Pallàs-Areny and John Webster bring you up to speed onthe latest advances in sensor technology, addressing both theexplosive growth in the use of microsensors and improvements madein classical macrosensors. They continue to offer the only combinedtreatment for both sensors and the signal-conditioning circuitsassociated with them, following the discussion of a given sensorand its applications with signal-conditioning methods for this typeof sensor. New and expanded coverage includes: \* New sections on sensor materials and microsensor technology \* Basic measurement methods and primary sensors for common physicalquantities \* A wide range of new sensors, from magnetoresistive sensors andSQUIDs to biosensors \* The widely used velocity sensors, fiber-optic sensors, andchemical sensors \* Variable CMOS oscillators and other digital and intelligentsensors \* 68 worked-out examples and 103 end-of-chapter problems withannotated solutions

Newnes Instrumentation and Measurement Pocket Book Analog Devices Incorporated

Now in its third edition, *Understanding Smart Sensors* is the most complete, up-to-date, and authoritative summary of the latest applications and developments impacting smart sensors in a single volume. This thoroughly expanded and revised edition of an Artech bestseller contains a wealth of new material, including critical coverage of sensor fusion and energy harvesting, the latest details on wireless technology, and greater emphasis on applications through the book. Utilizing the latest in smart sensor, microelectromechanical systems (MEMS) and microelectronic research and development, Engineers get the technical and practical information they need keep their designs and products on the cutting edge. Providing an extensive variety of information for both technical and non-technical professionals, this easy-to-understand, time-saving book covers current and emergent technologies, as well as their practical implementation. This comprehensive resource also includes an extensive list of smart sensor acronyms and a glossary of key terms.

**Analog-digital Conversion Notes** Abbildender Radarsensier mit sendeseitig geschalteter Gruppenantenne

*Electronic Noses and Olfaction 2000* reflects the state of progress toward the development and application of electronic instruments called electronic noses (e-noses). These instruments are generally based on arrays of sensors for volatile chemicals with broadly tuned selectivity, coupled to appropriate pattern recognition systems. They are capable of detecting and discriminating a number of different simple and complex odors, such as the headspace of coffee and olive oil, as well as being able to perform simple multicomponent gas analysis. Written by international scientists, engineers, technologists, clinicians, investigators, and instrument manufacturers working in the applied research of e-noses as well as in the applications of olfaction and taste, this volume is essential reading for anyone who wants a review of the latest developments in odor sensors, instrumentation and signal processing, and their medical, agricultural, and food-related applications.

*Technology of Electrical Measurements* John Wiley & Sons

A book which deals with the practical aspects of both analogue

and digital electronic measuring systems. The author discusses these systems with the designer in mind, giving information which will help readers to use electronic measuring tools in the most effective way.

*Introduction to Radio Frequency Design* CRC Press

Delivering the best possible solution for phase noise and output power efficiency in oscillators. This complete and thorough analysis of microwave oscillators investigates all aspects of design, with particular emphasis on operating conditions, choice of resonators and transistors, phase noise, and output power. It covers both bipolar transistors and FETs. Following the authors' guidance, readers learn how to design microwave oscillators and VCOs that can be tuned over a very wide frequency range, yet have good phase noise, are low cost, and are small in size. All the essential topics in oscillator design and development are covered, including: \* Device and resonator technology \* Study of noise sources \* Analysis methods \* Design, calculation, and optimization methodologies \* Practical design of single and coupled oscillators. While most of the current literature in the field concentrates on classic design strategies based on measurements, simulation, and optimization of output power and phase noise, this text offers a unique approach that focuses on the complete understanding of the design process. The material demonstrates important design rules starting with the selection of

best oscillator topology, choice of transistors, and complete phase noise analysis that leads to optimum performance of all relevant oscillator features. Also included are CMOS oscillators, which recently have become important in cellular applications. For readers interested in specialized applications and topics, a full chapter provides all the necessary references. The contents of the text fall into two major categories: \* Chapters 1 through 9 deal with a very detailed and expanded single resonator oscillator, including a thorough treatment of both nonlinear analysis and phase noise \* Chapters 10 and 11 use the knowledge obtained and apply it to multiple coupled oscillators (synchronized oscillators). This text is partially based on research sponsored by the Defense Advanced Research Projects Agency (DARPA) and the United States Army and conducted by Synergy Microwave Corporation. With the wealth of information provided for the analysis and practical design of single and synchronized low-noise microwave oscillators, it is recommended reading for all RF microwave engineers. In addition, the text's comprehensive, step-by-step approach makes it an excellent graduate-level textbook.

*Hall Effect Devices, Second Edition* John Wiley & Son Limited

A focussed day-to-day reference tool for engineers and students \* Key methods, formulae and data at your fingertips \* Expanded coverage of microprocessors, microcontrollers and digital interfacing. *Newnes Instrumentation and Measurement Pocket Book* is a uniquely versatile and practical tool for a wide range of

engineers and students. All the essentials of engineering instrumentation and measurement are covered, with clear explanations of key methods, and worked examples to illustrate them. Numerous tables and diagrams are provided, along with all the formulae you could need. The emphasis throughout the book is on providing the practical tools needed by engineers in real-world contexts. This pocket book is a handy source of information on systems and instruments for the measurement of quantities commonly encountered in engineering such as, temperature, radiation, stress and strain, and chemical composition. The third edition includes expanded coverage of microprocessors, microcontrollers and digital interfacing. The contents of this book have been carefully matched to the latest Further and Higher Education syllabuses so that it can also be used as a revision guide or a quick-access source of underpinning knowledge. Students on competence-based courses such as NVQs will find this approach particularly refreshing and practical.

*Digital Measurement Techniques* Butterworth-Heinemann

The field of electrical measurement continues to grow, with new techniques developed each year. From the basic thermocouple to cutting-edge virtual instrumentation, it is also becoming an increasingly "digital" endeavor. Books that attempt to capture the state-of-the-art in electrical measurement are quickly outdated. Recognizing the need for a text