



Low Threshold

D. N. Buckley, S. N. G. Chu, F. Ren



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Low Threshold Organic Thin Film Laser Devices Christian Karnutsch, 2007 *Low Threshold Organic Semiconductor Lasers* Yue Wang, 2013-10-01 This thesis focuses on two areas the development of miniature plastic lasers that can be powered by LEDs and the application of these lasers as highly sensitive sensors for vapours of nitroaromatic explosives e g TNT Polymer lasers are extremely compact visible lasers the research described in the thesis is groundbreaking driving forward the technology and physical understanding to allow these lasers to be routinely pumped by a single high power LED A notable advance in the work is the demonstration of nanoimprinted polymer lasers which exhibit the world s lowest pump threshold densities by two orders of magnitude The thesis also advances the application of these compact novel lasers as highly sensitive detectors of explosive vapours demonstrating that rapid detection can be achieved when microporous polymers are used This work also demonstrates a prototype CMOS based microsystem sensor for explosive vapours exploiting a new detection approach **Low Power RF Circuit Design in Standard CMOS Technology** Unai Alvarado, Guillermo Bistué, Iñigo Adín, 2011-10-18 Low Power Consumption is one of the critical issues in the performance of small battery powered handheld devices Mobile terminals feature an ever increasing number of wireless communication alternatives including GPS Bluetooth GSM 3G WiFi or DVB H Considering that the total power available for each terminal is limited by the relatively slow increase in battery performance expected in the near future the need for efficient circuits is now critical This book presents the basic techniques available to design low power RF CMOS analogue circuits It gives circuit designers a complete guide of alternatives to optimize power consumption and explains the application of these rules in the most common RF building blocks LNA mixers and PLLs It is set out using practical examples and offers a unique perspective as it targets designers working within the standard CMOS process and all the limitations inherent in these technologies **Neuroscientific Foundations of Anesthesiology** George A. Mashour, Ralph Lydic, 2011-10-05 Although the perioperative care of patients by anesthesiologists draws on diverse clinical skills the principles of anesthesiology and pain management are rooted in the neurosciences The Neuroscientific Foundations of Anesthesiology thoroughly examines the anesthetic modulation of the central peripheral and autonomic nervous systems and will help redefine anesthesiology as a fundamentally neuroscientific field The book is organized by sections with each focusing on a different part of the nervous system State of the art chapters written by thought leaders in anesthesiology and neuroscience provide a novel and invaluable resource **Excitatory Amino Acids Their Role in Neuroendocrine Function** Darrell W. Brann, Virendra B. Mahesh, 1995-10-24 This publication focuses on the neuroendocrine functions of excitatory neurotransmitters in the brain known as the excitatory amino acid transmitters EAAs EAAs such as glutamate and aspartate regulate the release of pituitary hormones which in turn effect most of the physiological systems in the body This book gives detailed coverage of the role of EAAs in reproduction growth the stress axis seasonal breeding puberty learning and memory **Enteric Nervous System**

Jackie D. Wood, 2011-08-01 Minute to minute behavior of the alimentary tract reflects the integrated functioning of the gut's musculature, secretory glands and blood lymphatic vasculature. Activity of the three effector systems to generate functionally effective patterns of behavior which are adaptive for differing digestive states is organized and coordinated by the enteric nervous system, i.e. the brain in the gut. The heuristic model for the enteric nervous system (ENS) is the same as for all integrative nervous systems whether in vertebrate or invertebrate animals. Like other integrative nervous systems such as the spinal cord and brain stem, the ENS functions with sensory neurons, interneurons and motor neurons. That the gut does not work without the ENS can be made as an absolute statement. This is apparent in its absence in terminal regions of the large intestine in Hirschsprung's disease in humans and animals where it is reflected by dysfunctional motility, failure of defecation and proximal fecal compaction within a proximal megacolon. Autoimmune ablation of the ENS in the lower esophageal sphincter underlies the pathophysiology of achalasia. Furthermore, neuropathic degeneration of ENS neurons in irritable bowel syndrome, other functional gastrointestinal disorders, intestinal pseudoobstruction, Chagas disease, paraneoplastic syndrome and enteric ganglionitis underlies the morbidity associated with these disorders. The impact of these clinical disorders on quality of life and cost of health care is a reminder of the importance of the ENS for a normally functioning gut. Moreover, our incomplete understanding of the pathobiology of these disorders highlights a need for research directed to expansion of current knowledge of the neurobiology of the ENS at all levels of organization from the cellular biology of individual neurons to the biophysics of integrated networks to whole organ behavior. Investigation of the normal and disordered ENS and its interactions with the central nervous system is a branch of neurogastroenterology. Neurogastroenterology is a scientific and clinical subspecialty of gastroenterology that deals with the neural mechanisms that influence function of the digestive tract and that underlie projection of conscious sensations to the gut.

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Marine Toxins—Advances in Research and Application: 2012 Edition, 2012-12-26 Marine Toxins Advances in Research and Application 2012 Edition is a ScholarlyBrief that delivers timely, authoritative, comprehensive and specialized information about Marine Toxins in a concise format. The editors have built Marine Toxins Advances in Research and Application 2012 Edition on the vast information databases of ScholarlyNews. You can expect the information about Marine Toxins in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed and relevant. The content of Marine Toxins Advances in Research and Application 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions and companies. All of the content is from peer-reviewed sources and all of it is written, assembled and edited by the editors at ScholarlyEditions and

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Food Gardens for a Changing World Daniela Soleri, David A Cleveland, Steven E Smith, 2019-06-28 Food gardening is becoming increasingly popular as people look for new ways to live more sustainably and minimize harm to the environment This book addresses the 21st century trends which bring new challenges to food gardening anthropogenic climate change environmental degradation natural resource scarcity and social inequity and explains the basic biological ecological and social concepts needed to understand and respond to them Examples throughout the text demonstrate how to successfully use these concepts while supporting gardeners values and their goals for themselves their communities and the world

Signal Molecules and Behaviour William Winlow, Ol'ga Sergeevna Vinogradova, D. A. Sakharov, 1991 Originating from a symposium sponsored by the USSR Academy of Sciences the contents of this volume address the roles of signal molecules in animal behaviour The work is divided into three sections covering cellular and invertebrate models vertebrate models and methodology

Mixing Audio Roey Izhaki, 2012 Roey Izhaki teaches you the importance of a mixing vision how to craft and evaluate your mix and then take it a step further He describes the theory and the tools used and how these are put into practice while creating mixes Page 4 of cover

Religion in the Neoliberal Age François Gauthier, 2016-04-08 This book together with a complementary volume Religion in Consumer Society focuses on religion neoliberalism and consumer society offering an overview of an emerging field of research in the study of contemporary religion Claiming that we are entering a new phase of state religion relations the editors examine how this is historically anchored in modernity but affected by neoliberalization and globalization of society and social life Seemingly distant developments such as marketization and commoditization of religion as well as legalization and securitization of social conflicts are transforming historical expressions of religion and religiosity yet these changes are seldom if ever understood as forming a coherent structured and systemic ensemble Religion in the Neoliberal Age includes an extensive introduction framing the research area and linking it to existing scholarship before looking at four key issues 1 How changes in state structures have empowered new modes of religious activity in welfare production and the delivery of a range of state services 2 How are religion state relations transforming under the pressures of globalization and neoliberalism 3 How historical churches and their administrations are undergoing change due to structural changes in society and what new forms of religious body are emerging 4 How have law and security become new areas for solving religious conflicts Outlining changes in both the political institutional and cultural spheres the contributors offer an international overview of developments in different countries and state of the art representation of religion in the new global political economy

Switched Reluctance Motor Drives Berker Bilgin, James Weisheng Jiang, Ali Emadi, 2019-04-29 Electric motors are the largest consumer of electric energy and they play a critical role in the growing market for electrification Due to their simple construction switched reluctance motors SRMs are exceptionally attractive for the industry to respond to the

increasing demand for high efficiency high performance and low cost electric motors with a more secure supply chain

Switched Reluctance Motor Drives Fundamentals to Applications is a comprehensive textbook covering the major aspects of switched reluctance motor drives It provides an overview of the use of electric motors in the industrial residential commercial and transportation sectors It explains the theory behind the operation of switched reluctance motors and provides models to analyze them The book extensively concentrates on the fundamentals and applications of SRM design and covers various design details such as materials mechanical construction and controls Acoustic noise and vibration is the most well known issue in switched reluctance motors but this can be reduced significantly through a multidisciplinary approach These methodologies are explained in two chapters of the book The first covers the fundamentals of acoustic noise and vibration so readers have the necessary tools to analyze the problems and explains the surface waves spring mass models forcing harmonics and mode shapes that are utilized in modeling and analyzing acoustic noise and vibration The second applies these fundamentals to switched reluctance motors and provides examples for determining the sources of any acoustic noise in switched reluctance motors In the final chapter two SRM designs are presented and proposed as replacements for permanent magnet machines in a residential HVAC application and a hybrid electric propulsion application It also shows a high power and compact converter design for SRM drives

Features Comprehensive coverage of switched reluctance motor drives from fundamental principles to design operation and applications A specific chapter on electric motor usage in industrial residential commercial and transportation applications to address the benefits of switched reluctance machines Two chapters address acoustic noise and vibration in detail Numerous illustrations and practical examples on the design modeling and analysis of switched reluctance motor drives Examples of switched reluctance motor and drive design

Transactions on Engineering Technologies Gi-Chul Yang,Sio-Iong Ao,Xu Huang,Oscar Castillo,2014-12-30 This volume contains revised and extended research articles written by prominent researchers who participated in the international conference on Advances in Engineering Technologies which was held in Hong Kong 12 14 March 2014 Topics covered include engineering physics engineering mathematics scientific computing control theory artificial intelligence electrical engineering communications systems and industrial applications The book offers the state of art of tremendous advances in engineering technologies and physical science and applications and also serves as an excellent reference work for researchers and graduate students working with on engineering technologies and physical science and applications

TRP Ion Channel Function in Sensory Transduction and Cellular Signaling Cascades Wolfgang B. Liedtke, MD, PH.D.,2006-09-29 Since the first TRP ion channel was discovered in *Drosophila melanogaster* in 1989 the progress made in this area of signaling research has yielded findings that offer the potential to dramatically impact human health and wellness Involved in gateway activity for all five of our senses TRP channels have been shown to respond to a wide range of st

Biomedical Engineering Systems and Technologies Ana Cecília A. Roque,Denis Gracanin,Ronny Lorenz,Athanasios

Tsanas,Nathalie Bier,Ana Fred,Hugo Gamboa,2023-08-23 This book constitutes the refereed post proceedings of the 15th International Conference on Biomedical Engineering Systems and Technologies BIOSTEC 2022 held as a Virtual Event during February 9 11 2022 The 21 full papers included in this book were carefully reviewed and selected from 262 submissions The papers selected to be included in this book contribute to the understanding of relevant trends of current research on Biomedical Engineering Systems and Technologies including Pattern Recognition and Machine Learning Application of Health Informatics in Clinical Cases Evaluation and Use of Healthcare IT Medical Signal Acquisition Analysis and Processing Data Mining and Data Analysis Decision Support Systems e Health e Health Applications Mobile Technologies for Healthcare Applications and Medical Devices design Gastrointestinal Inflammation and Disturbed Gut Function: The Challenge of New Concepts G. Holtmann,N.J. Talley,2003-09-30 This book the proceedings of Falk Symposium 130 on Gastrointestinal Inflammation and Disturbed Gut Function The Challenge of New Concepts held in Freiburg Germany on October 4 6 2002 Part I of the Gastroenterology Week Freiburg 2002 reviews ground breaking work and will stimulate new research in the functional GI disorders from the bench to the bedside Basic scientists clinical researchers and clinicians interested in this field explore controversial and exciting areas of research and consider targets for future therapeutic interventions **Chips 2020** Bernd Hoefflinger,2011-12-15 The chips in present day cell phones already contain billions of sub 100 nanometer transistors By 2020 however we will see systems on chips with trillions of 10 nanometer transistors But this will be the end of the miniaturization because yet smaller transistors containing just a few control atoms are subject to statistical fluctuations and thus no longer useful We also need to worry about a potential energy crisis because in less than five years from now with current chip technology the internet alone would consume the total global electrical power This book presents a new sustainable roadmap towards ultra low energy femto Joule high performance electronics The focus is on the energy efficiency of the various chip functions sensing processing and communication in a top down spirit involving new architectures such as silicon brains ultra low voltage circuits energy harvesting and 3D silicon technologies Recognized world leaders from industry and from the research community share their views of this nanoelectronics future They discuss among other things ubiquitous communication based on mobile companions health and care supported by autonomous implants and by personal carebots safe and efficient mobility assisted by co pilots equipped with intelligent micro electromechanical systems and internet based education for a billion people from kindergarden to retirement This book should help and interest all those who will have to make decisions associated with future electronics students graduates educators and researchers as well as managers investors and policy makers Introduction Towards Sustainable 2020 Nanoelectronics From Microelectronics to Nanoelectronics The Future of Eight Chip Technologies Analog Digital Interfaces Interconnects and Transceivers Requirements and Markets for Nanoelectronics ITRS The International Technology Roadmap for Semiconductors Nanolithography Power EfficientDesign Challenges Superprocessors and Supercomputers Towards

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