

Electronic noise and fluctuations in solids

Sh. Kogan

Electronic Noise And Fluctuations In Solids

Tibor Grasser, Siegfried Selberherr



Electronic Noise And Fluctuations In Solids:

Electronic Noise and Fluctuations in Solids Sh. Kogan, 2008-07-31 This book looks at the physics of electronic fluctuations noise in solids The author emphasizes many fundamental experiments that have become classics physical mechanisms of fluctuations and the nature and magnitude of noise He also includes the most comprehensive and complete review of flicker 1/f noise in the literature It will be useful to graduate students and researchers in physics and electronic engineering and especially those carrying out research in the fields of noise phenomena and highly sensitive electronic devices detectors electronic devices for low noise amplifiers and quantum magnetometers SQUIDS *Noise in Physical Systems and 1/f Fluctuations* Gijs Bosman, 2001 The International Conference on Noise in Physical Systems and 1/f Fluctuations brings together physicists and engineers interested in all aspects of noise and fluctuations in materials devices circuits and physical and biological systems The experimental research on novel devices and systems and the theoretical studies included in this volume provide the reader with a comprehensive in depth treatment of present noise research activities worldwide Contents Noise in Nanoscale Devices S Bandyopadhyay et al 1/f Voltage Noise Induced by Magnetic Flux Flow in Granular Superconductors O V Gerashchenko Low Frequency Noise Analysis of Different Types of Polysilicon Resistors A Penarier et al Low Frequency Noise in CMOS Transistors An Experimental and Comparative Study on Different Technologies P Fantini et al Modeling of Current Transport and 1/f Noise in GaN Based HBTs H Unlu Low Frequency Noise in CdSe Thin Film Transistors M J Deen NIST Program on Relative Intensity Noise Standards for Optical Fiber Sources Near 1550 nm G Obarski Physical Model of the Current Noise Spectral Density Versus Dark Current in CdTe Detectors A Imad et al Time and Frequency Study of RTS in Bipolar Transistors A Penarier et al Neural Network Based Adaptive Processing of Electrogastrogram S Selvan Shot Noise as a Test of Entanglement and Nonlocality of Electrons in Mesoscopic Systems E V Sukhorukov et al The Readout of Time Continued Fractions and 1/f Noise M Planat Longitudinal and Transverse Noise of Hot Electrons in 2DEG Channels J Liberis et al 1/f Noise Intermittency and Clustering Poisson Process F Gruneis Noise Modeling for PDE Based Device Simulations F Bonani Methods of Slope Estimation of Noise Power Spectral Density J Smulko and other papers Readership Researchers academics and graduate students in electrical and electronic engineering biophysics nanoscience applied physics statistical physics and semiconductor science **Noise in Semiconductor Devices** Fabrizio Bonani, Giovanni Ghione, 2013-03-09 The design and optimization of electronic systems often requires appraisal an of the electrical noise generated by active devices and at a technological level the ability to properly design active elements in order to minimize when possible their noise Examples of critical applications are of course receiver front ends in RF and optoelectronic transmission systems but also front end stages in sensors and in a completely different context nonlinear circuits such as oscillators mixers and frequency multipliers The rapid development of silicon RF applications has recently fostered the interest toward low noise silicon devices for the lower microwave band such as low noise MOS transistors at the same time

the RF and microwave ranges are becoming increasingly important in fast optical communication systems. Thus high frequency noise modeling and simulation of both silicon and compound semiconductor based bipolar and field effect transistors can be considered as an important and timely topic. This does not exclude of course low frequency noise which is relevant also in the RF and microwave ranges when ever it is up converted within a nonlinear system either autonomous as an oscillator or non autonomous as a mixer or frequency multiplier. The aim of the present book is to provide a thorough introduction to the physics based numerical modeling of semiconductor devices operating both in small signal and in large signal conditions. In the latter instance only the non autonomous case was considered and thus the present treatment does not directly extend to oscillators.

CMOS Angelo Rivetti, 2018-09-03 CMOS Front End Electronics for Radiation Sensors offers a comprehensive introduction to integrated front end electronics for radiation detectors focusing on devices that capture individual particles or photons and are used in nuclear and high energy physics space instrumentation medical physics homeland security and related fields. Emphasizing practical design and implementation this book Covers the fundamental principles of signal processing for radiation detectors. Discusses the relevant analog building blocks used in the front end electronics. Employs systematically weak and moderate inversion regimes in circuit analysis. Makes complex topics such as noise and circuit weighting functions more accessible. Includes numerical examples where appropriate. CMOS Front End Electronics for Radiation Sensors provides specialized knowledge previously obtained only through the study of multiple technical and scientific papers. It is an ideal text for students of physics and electronics engineering as well as a useful reference for experienced practitioners.

CFN Lectures on Functional Nanostructures - Volume 2 Christian Röthig, Gerd Schön, Matthias Vojta, 2011-08-24 This series of books contains selected and edited lectures from summer schools organized by the Center for Functional nanostructures CFN at the University of Karlsruhe. The mission of the CFN is to carry out research in the following areas nanophotonics nanoelectronics molecular nanostructures and nanostructured materials. The aim of the summer schools is mainly to exchange new ideas and illustrate emerging research methodologies through a series of topical introductory lectures. This is reflected by both the selection of topics addressed in the present volume nanoelectronics as well as the tutorial aspect of the contributions.

Spin Electronics Michael Ziese, Martin J. Thornton, 2007-06-30 For 50 years conventional electronics has ignored the electron spin. The manipulation and utilisation of the electron spin heralds an exciting and rapidly changing era in electronics combining the disciplines of magnetism and traditional electronics. The first generation of spintronic devices such as read heads based on giant magnetoresistance or non volatile magnetic random access memories have already gained dominant positions in the market place. This volume the first of its kind on spin electronics describes all the essential topics for new researchers entering the field. It covers magnetism and semiconductor basics micromagnetism experimental techniques materials science device fabrication and new developments in spin dependent processes. At the end of most chapters are a number of exercises and worked problems to

aid the reader in understanding this fascinating new field

Breakdown Phenomena In Semiconductors And Semiconductor Devices Michael E Levinshtein, Juha Kostamovaara, Sergey Vainshtein, 2005-09-07 Impact ionization avalanche and breakdown phenomena form the basis of many very interesting and important semiconductor devices such as avalanche photodiodes avalanche transistors suppressors sharpening diodes diodes with delayed breakdown as well as IMPATT and TRAPATT diodes In order to provide maximal speed and power many semiconductor devices must operate under or very close to breakdown conditions Consequently an acquaintance with breakdown phenomena is essential for scientists or engineers dealing with semiconductor devices The aim of this book is to summarize the main experimental results on avalanche and breakdown phenomena in semiconductors and semiconductor devices and to analyze their features from a unified point of view Attention is focused on the phenomenology of avalanche multiplication and the various kinds of breakdown phenomena and their qualitative analysis

Fundamentals and Frontiers of the Josephson Effect Francesco Tafuri, 2019-09-17 This book provides a comprehensive and up to date description of the Josephson effect a topic of never ending interest in both fundamental and applied physics In this volume world renowned experts present the unique aspects of the physics of the Josephson effect resulting from the use of new materials of hybrid architectures and from the possibility of realizing nanoscale junctions These new experimental capabilities lead to systems where novel coherent phenomena and transport processes emerge All this is of great relevance and impact especially when combined with the didactic approach of the book The reader will benefit from a general and modern view of coherent phenomena in weakly coupled superconductors on a macroscopic scale Topics that have been only recently discussed in specialized papers and in short reviews are described here for the first time and organized in a general framework An important section of the book is also devoted to applications with focus on long term future applications In addition to a significant number of illustrations the book includes numerous tables for comparative studies on technical aspects

The Physics of Nanoelectronics Tero T. Heikkilä, 2013-01-31 This book provides an introduction to phenomena and models in nanoelectronics It starts from the basics but also introduces topics of recent interest such as superconducting qubits graphene and quantum nanoelectromechanics

Nonlinear Dynamics of Chaotic and Stochastic Systems Vadim S. Anishchenko, Vladimir Astakhov, Alexander Neiman, Tatjana Vadivasova, Lutz Schimansky-Geier, 2007-07-20 We present an improved and enlarged version of our book Nonlinear dynamics of Chaotic and Stochastic Systems published by Springer in 2002 Basically the new edition of the book corresponds to its first version While preparing this edition we made some clarifications in several sections and also corrected the misprints noticed in some formulas Besides three new sections have been added to Chapter 2 They are Statistical Properties of Dynamical Chaos Effects of Synchronization in Extended Self Sustained Oscillatory Systems and Synchronization in Living Systems The sections indicated reflect the most interesting results obtained by the authors after publication of the first edition We hope that the new edition of the book will be of great interest for a

widesectionofreaderswhoarealready specialistsorthosewhoarebeginning research in the elds of nonlinear oscillation and wave theory dynamical chaos synchronization and stochastic process theory Saratov Berlin and St Louis V S Anishchenko November 2006 A B Neiman T E Vadiavasova V V Astakhov L Schimansky Geier Preface to the First Edition Thisbookisdevotedtothe classicalbackgroundandto contemporaryresults on nonlinear dynamics of deterministic and stochastic systems Considerable attentionisgiventothee ectsofnoiseonvariousregimesofdynamicsystems with noise induced order On the one hand there exists a rich literature of excellent books on n linear dynamics and chaos on the other hand there are many marvelous monographs and textbooks on the statistical physics of far from equilibrium andstochasticprocesses Thisbookisanattempttocombinetheapproachof nonlinear dynamics based on the deterministic evolution equations with the approach of statistical physics based on stochastic or kineticequations One of our main aims is to show the important role of noise in the organization and properties of dynamic regimes of nonlinear dissipative systems *Handbook of Magnetic Materials* K.H.J. Buschow,2003-12-03 Volume 15 of the Handbook on the Properties of Magnetic Materials as the preceding volumes has a dual purpose As a textbook it is intended to be of assistance to those who wish to be introduced to a given topic in the field of magnetism without the need to read the vast amount of literature published As a work of reference it is intended for scientists active in magnetism research To this dual purpose Volume 15 of the Handbook is composed of topical review articles written by leading authorities In each of these articles an extensive description is given in graphical as well as in tabular form much emphasis being placed on the discussion of the experimental material in the framework of physics chemistry and material science It provides the readership with novel trends and achievements in magnetism

Semiconductor Physics Sandip Tiwari,2020-09-22 The subject of semiconductor physics today includes not only many of the aspects that constitute solid state physics but also much more It includes what happens at the nanoscale and at surfaces and interfaces behavior with few interaction events and few carriers electrons and their quasi particle holes in the valence bands the exchange of energies in various forms the coupling of energetic events over short and long length scales quantum reversibility tied to macroscale linearity and eventually to nonlinearities the thermodynamic and statistical consequences of fluctuation dissipation and others This text brings together traditional solid state approaches from the 20th century with developments of the early part of the 21st century to reach an understanding of semiconductor physics in its multifaceted forms It reveals how an understanding of what happens within the material can lead to insights into what happens in its use The collection of four textbooks in the Electrosience series culminates in a comprehensive understanding of nanoscale devices electronic magnetic mechanical and optical in the 4th volume The series builds up to this last subject with volumes devoted to underlying semiconductor and solid state physics The Physics of Semiconductors Marius Grundmann,2021-03-06 The 4th edition of this highly successful textbook features copious material for a complete upper level undergraduate or graduate course guiding readers to the point where they can choose a specialized topic and begin

supervised research The textbook provides an integrated approach beginning from the essential principles of solid state and semiconductor physics to their use in various classic and modern semiconductor devices for applications in electronics and photonics The text highlights many practical aspects of semiconductors alloys strain heterostructures nanostructures amorphous semiconductors and noise which are essential aspects of modern semiconductor research but often omitted in other textbooks This textbook also covers advanced topics such as Bragg mirrors resonators polarized and magnetic semiconductors nanowires quantum dots multi junction solar cells thin film transistors and transparent conductive oxides The 4th edition includes many updates and chapters on 2D materials and aspects of topology The text derives explicit formulas for many results to facilitate a better understanding of the topics Having evolved from a highly regarded two semester course on the topic The Physics of Semiconductors requires little or no prior knowledge of solid state physics More than 2100 references guide the reader to historic and current literature including original papers review articles and topical books providing a go to point of reference for experienced researchers as well

Miniaturized Transistors Lado Filipovic,Tibor Grasser,2019-06-24 What is the future of CMOS Sustaining increased transistor densities along the path of Moore s Law has become increasingly challenging with limited power budgets interconnect bandwidths and fabrication capabilities In the last decade alone transistors have undergone significant design makeovers from planar transistors of ten years ago technological advancements have accelerated to today s FinFETs which hardly resemble their bulky ancestors FinFETs could potentially take us to the 5 nm node but what comes after it From gate all around devices to single electron transistors and two dimensional semiconductors a torrent of research is being carried out in order to design the next transistor generation engineer the optimal materials improve the fabrication technology and properly model future devices We invite insight from investigators and scientists in the field to showcase their work in this Special Issue with research papers short communications and review articles that focus on trends in micro and nanotechnology from fundamental research to applications

Noise In Physical Systems And 1/f Fluctuations: Icnf 2001, Procs Of The 16th Intl Conf Gijs Bosman,2001-08-20 The International Conference on Noise in Physical Systems and 1 f Fluctuations brings together physicists and engineers interested in all aspects of noise and fluctuations in materials devices circuits and physical and biological systems The experimental research on novel devices and systems and the theoretical studies included in this volume provide the reader with a comprehensive in depth treatment of present noise research activities worldwide

Laser Radar National Research Council,Division on Engineering and Physical Sciences,Committee on Review of Advancements in Active Electro-Optical Systems to Avoid Technological Surprise Adverse to U.S. National Security,2014-03-14 In today s world the range of technologies with the potential to threaten the security of U S military forces is extremely broad These include developments in explosive materials sensors control systems robotics satellite systems and computing power to name just a few Such technologies have not only enhanced the capabilities of U S military forces but also offer enhanced offensive

capabilities to potential adversaries either directly through the development of more sophisticated weapons or more indirectly through opportunities for interrupting the function of defensive U S military systems Passive and active electro optical EO sensing technologies are prime examples Laser Radar considers the potential of active EO technologies to create surprise i e systems that use a source of visible or infrared light to interrogate a target in combination with sensitive detectors and processors to analyze the returned light The addition of an interrogating light source to the system adds rich new phenomenologies that enable new capabilities to be explored This report evaluates the fundamental physical limits to active EO sensor technologies with potential military utility identifies key technologies that may help overcome the impediments within a 5 10 year timeframe considers the pros and cons of implementing each existing or emerging technology and evaluates the potential uses of active EO sensing technologies including 3D mapping and multi discriminate laser radar technologies

Hierarchical Device Simulation Christoph Jungemann, Bernd Meinerzhagen, 2012-12-06 This book summarizes the research of more than a decade Its early motivation dates back to the eighties and to the memorable talks Dr C Moglestue FHG Freiburg gave on his Monte Carlo solutions of the Boltzmann transport equation at the NASECODE conferences in Ireland At that time numerical semiconductor device modeling basically implied the application of the drift diffusion model On the one hand those talks clearly showed the potential of the Monte Carlo model for an accurate description of many important transport issues that cannot adequately be addressed by the drift diffusion approximation On the other hand they also clearly demonstrated that at that time only very few experts were able to extract useful results from a Monte Carlo simulator With this background Monte Carlo research activities were started in 1986 at the University of Aachen RWTH Aachen Germany Different to many other Monte Carlo research groups the Monte Carlo research in Aachen took place in an environment of active drift diffusion and hydrodynamic model development

Simulation of Semiconductor Processes and Devices 2007 Tibor Grasser, Siegfried Selberherr, 2007-11-18 The Twelfth International Conference on Simulation of Semiconductor Processes and Devices SISPAD 2007 continues a long series of conferences and is held in September 2007 at the TU Wien Vienna Austria The conference is the leading forum for Technology Computer Aided Design TCAD held alternately in the United States Japan and Europe The first SISPAD conference took place in Tokyo in 1996 as the successor to three preceding conferences NUPAD VPAD and SISDEP With its longstanding history SISPAD provides a world wide forum for the presentation and discussion of outstanding recent advances and developments in the field of numerical process and device simulation Driven by the ongoing miniaturization in semiconductor fabrication technology the variety of topics discussed at this meeting reflects the ever growing complexity of the subject Apart from the classic topics like process device and interconnect simulation mesh generation a broad spectrum of numerical issues and compact modeling new simulation approaches like atomistic and first principles methods have emerged as important fields of research and are currently making their way into standard TCAD suites

Van der Waals Forces V. Adrian

Parsegian, 2005-11-28 This book should prove to be the definitive work explaining van der Waals forces how to calculate them and take account of their impact under any circumstances and conditions These weak intermolecular forces are of truly pervasive impact and biologists chemists physicists and engineers will profit greatly from the thorough grounding in these fundamental forces that this book offers Parsegian has organized his book at three successive levels of mathematical sophistication to satisfy the needs and interests of readers at all levels of preparation The Prelude and Level 1 are intended to give everyone an overview in words and pictures of the modern theory of van der Waals forces Level 2 gives the formulae and a wide range of algorithms to let readers compute the van der Waals forces under virtually any physical or physiological conditions Level 3 offers a rigorous basic formulation of the theory *Deterministic Solvers for the Boltzmann Transport Equation* Sung-Min Hong, Anh-Tuan Pham, Christoph Jungemann, 2011-07-31 The book covers all aspects from the expansion of the Boltzmann transport equation with harmonic functions to application to devices where transport in the bulk and in inversion layers is considered The important aspects of stabilization and band structure mapping are discussed in detail This is done not only for the full band structure of the 3D k space but also for the warped band structure of the quasi 2D hole gas Efficient methods for building the Schrödinger equation for arbitrary surface or strain directions gridding of the 2D k space and solving it together with the other two equations are presented

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