

Electronic Noise And Fluctuations In Solids

Electronic Noise and Fluctuations in Solids

Sh Kogan 1996-08-15 This book is devoted to the physics of electronic fluctuations (noise) in solids and covers almost all important examples of this phenomenon. It is comprehensive, intelligible and well illustrated. Emphasis is given to the main concepts, supported by many fundamental experiments which have become classics, to physical mechanisms of fluctuations, and to conclusions on the nature and magnitude of noise. The book also includes a 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, for example radiation detectors, electronic devices for low-noise amplifiers and quantum magnetometers (SQUIDS).

Fluctuation Phenomena in Solids Ronald Eric Burgess 1965

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).

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.

Noise and Information in Nanoelectronics, Sensors, and Standards 2005

Coulomb Correlations and Electronic Transport in the Disordered Semiconductor Si:B John Greg Massey 1998

Spin Electronics Michael Ziese 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.

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Russian Journal of Electrochemistry 2004

Thin-Film Compound Semiconductor

Photovoltaics: Volume 865 Materials Research

Society. Meeting 2005-11-09 The MRS

Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners.

Fabrication and Characterization of Spin Valve Heads for High Density Recording Min

Xiao 1999

Physical Review Letters 2000

American Journal of Physics 1995

Semiconductor Physics Karl W. Böer 2023-02-02

This handbook gives a complete and detailed survey of the field of semiconductor physics. It addresses every fundamental principle, the most important research topics and results, as well as conventional and emerging new areas of application. Additionally it provides all essential reference material on crystalline bulk, low-dimensional, and amorphous semiconductors, including valuable data on their optical, transport, and dynamic properties. This updated and extended second edition includes essential coverage of rapidly advancing areas in semiconductor physics, such as topological insulators, quantum optics, magnetic nanostructures and spintronic systems. Richly illustrated and authored by a duo of internationally acclaimed experts in solar energy and semiconductor physics, this handbook delivers in-depth treatment of the field, reflecting a combined experience spanning several decades as both researchers and educators. Offering a unique perspective on many issues, Semiconductor Physics is an invaluable reference for physicists, materials scientists and engineers throughout academia and industry.

Applied Physics Letters 2001

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.

Physics of Semiconductors Wolfgang Jantsch

2007 This book features peer-reviewed papers that were presented at the 28th International Conference on the Physics of Semiconductors. This biannual conference presents and discusses all important developments and outstanding recent results in the field of semiconductor physics: one of the most important disciplines in solid state physics. Semiconductor physics provides the scientific basis for the microelectronic device industry.

Hierarchical Device Simulation Christoph Jungemann 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.

Journal of Experimental and Theoretical Physics
2002

Photodetectors 1998

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