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Semiconductors for Room-Temperature Radiation Detector Applications

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**Semiconductors For Roomtemperature Radiation
Detector Applications Ii Symposium Held December 15
1997 Boston Massachusetts Usa**

Miles N. Wernick, John N. Aarsvold



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Physics and Engineering of Radiation Detection Syed Naeem Ahmed, 2014-11-20 Physics and Engineering of Radiation Detection presents an overview of the physics of radiation detection and its applications It covers the origins and properties of different kinds of ionizing radiation their detection and measurement and the procedures used to protect people and the environment from their potentially harmful effects The second edition is fully revised and provides the latest developments in detector technology and analyses software Also more material related to measurements in particle physics and a complete solutions manual have been added Discusses the experimental techniques and instrumentation used in different detection systems in a very practical way without sacrificing the physics content Provides useful formulae and explains methodologies to solve problems related to radiation measurements Contains many worked out examples and end of chapter problems Detailed discussions on different detection media such as gases liquids liquefied gases semiconductors and scintillators Chapters on statistics data analysis techniques software for data analysis and data acquisition systems

Emission Tomography Miles N. Wernick, John N. Aarsvold, 2004-12-07 PET and SPECT are two of today's most important medical imaging methods providing images that reveal subtle information about physiological processes in humans and animals Emission Tomography The Fundamentals of PET and SPECT explains the physics and engineering principles of these important functional imaging methods The technology of emission tomography is covered in detail including historical origins scientific and mathematical foundations imaging systems and their components image reconstruction and analysis simulation techniques and clinical and laboratory applications The book describes the state of the art of emission tomography including all facets of conventional SPECT and PET as well as contemporary topics such as iterative image reconstruction small animal imaging and PET CT systems This book is intended as a textbook and reference resource for graduate students researchers medical physicists biomedical engineers and professional engineers and physicists in the medical imaging industry Thorough tutorials of fundamental and advanced topics are presented by dozens of the leading researchers in PET and SPECT SPECT has long been a mainstay of clinical imaging and PET is now one of the world's fastest growing medical imaging techniques owing to its dramatic contributions to cancer imaging and other applications Emission Tomography The Fundamentals of PET and SPECT is an essential resource for understanding the technology of SPECT and PET the most widely used forms of molecular imaging Contains thorough tutorial treatments coupled with coverage of advanced topics Three of the four holders of the prestigious Institute of Electrical and Electronics Engineers Medical Imaging Scientist Award are chapter contributors Include color artwork **The Cumulative Book Index**, 1995 A world list of books in the English language *III-V Nitrides* Fernando A. Ponce, 1997 **Electrical & Electronics Abstracts**, 1997 **Subject Guide to Books in Print**, 1991 **Semiconductors for Room-Temperature Radiation Detector Applications II: Volume 487**

R. B. James, 1997 Contains papers from a December 1997 symposium on semiconductor radiation detectors for use in the energy range of a few eV to about 5 MeV Primary emphasis is on developing semiconductor X ray and gamma ray detectors and imagers which combine the advantages of room temperature operation with the excellent energy resolution of cryogenically cooled spectrometers Papers are arranged in sections on cadmium zinc telluride growth material properties detectors and systems mercury and lead iodide materials detectors and systems Group IV and III V materials detectors and systems ZnSe and ZnS materials and detectors analysis and characteristics of detectors systems and applications and IR materials and detectors Annotation copyrighted by Book News Inc Portland OR Semiconductors for Roomtemperature Radiation Detector Applications R. James, 1993 Symposium on Semiconductors for Room-Temperature Radiation Detector Applications, 1993 **Materials Research Society Symposium Proceedings** Materials Research Society, 1993

Semiconductors for Room-Temperature Radiation Detector Applications: R. B. James, T. E. Schlesinger, Paul Siffert, Larry Franks, 2014-06-05 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Semiconductors for Room Temperature Nuclear Detector Applications**, 1995-09-11 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer Series as it is widely known has succeeded in publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others promise indeed that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry One of the first comprehensive works on room temperature nuclear detectors Edited by technical experts in the field Written by recognized authorities from industrial and academic institutions Focused on the electrical optical and structural properties of semiconductors used for room temperature nuclear detectors *Room Temperature Semiconductor Detectors* Ralph B. James, 1999

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