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Point Defects in Semiconductors and Insulators

Determination of Atomic
and Electronic Structure
from Paramagnetic
Hyperfine Interactions



Springer

Point Defects In Semiconductors 2vol

S Ben Porath



Point Defects In Semiconductors 2vol:

Intrinsic Point Defects, Impurities, and Their Diffusion in Silicon Peter Pichler, 2012-12-06 Basically all properties of semiconductor devices are influenced by the distribution of point defects in their active areas This book contains the first comprehensive review of the properties of intrinsic point defects acceptor and donor impurities isovalent atoms chalcogens and halogens in silicon as well as of their complexes Special emphasis is placed on compiling the structures energetic properties identified electrical levels and spectroscopic signatures and the diffusion behavior from experimental and theoretical investigations In addition the book discusses the fundamental concepts of silicon and its defects the electron system diffusion thermodynamics and reaction kinetics which form the scientific basis needed for a thorough understanding of the text Therefore the book is able to provide an introduction to newcomers in this field up to a comprehensive reference for experts in process technology solid state physics and simulation of semiconductor processes **International Books in**

Print, 1995 Barbara Hopkinson, [Anonymus AC01401231], 1995 **Scientific and Technical Aerospace Reports**, 1982 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Proceedings of the 14th**

International Conference on Defects in Semiconductors H. J. von Bardeleben, 1986 *Proceedings of the 18th International Conference on Defects in Semiconductors* Masashi Suezawa, Hiroshi Katayama-Yoshida, 1995 **Advanced Metallization and Processing for Semiconductor Devices and Circuits - II: Volume 260** Avishay Katz, 1992-10-28 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

Nuclear Science Abstracts, 1976 **Handbook of Gas Sensor Materials** Ghenadii Korotcenkov, 2013-11-08 The two volumes of Handbook of Gas Sensor Materials provide a detailed and comprehensive account of materials for gas sensors including the properties and relative advantages of various materials Since these sensors can be applied for the automation of myriad industrial processes as well as for everyday monitoring of such activities as public safety engine performance medical therapeutics and in many other situations this handbook is of great value Gas sensor designers will find a treasure trove of material in these two books **Journal of Physics C**, 1969 **Diffusion and Defect Data**, 1997 *Subject*

Guide to Books in Print, 1984 *Materials Aspect of Thermoelectricity* Ctirad Uher, 2016-11-25 In recent years novel families of materials have been discovered and significant improvements in classical thermoelectric materials have been made Thermoelectric generators are now being used to harvest industrial heat waste and convert it into electricity This is being utilized in communal incinerators large smelters and cement plants Leading car and truck companies are developing thermoelectric power generators to collect heat from the exhaust systems of gasoline and diesel engines Additionally thermoelectric coolers are being used in a variety of picnic boxes vessels used to transport transplant organs and in air conditioned seats of mid size cars Consisting of twenty one chapters written by top researchers in the field this book explores

the major advancements being made in the material aspects of thermoelectricity and provides a critical assessment in regards to the broadening of application opportunities for thermoelectric energy conversion Electrical & Electronics Abstracts ,1997 **Journal of Physics** ,1969 *Government Reports Annual Index* ,1988 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z BLL Conference Index, 1964-1973 British Library. Lending Division,1974 **Scientific and Technical Books and Serials in Print** ,1989 Scientific and Technical Books in Print ,1972 **Government Reports Announcements** ,1975-10-17 *Current Technical Papers* ,1963

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