

# Semiconductor Ceramics: Grain Boundary Effects (Ellis Horwood series in physics & its applications)

Hozer, Leszek

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# Semiconductor Ceramics Grain Boundary Effects

**Sabu Thomas, Rene Muller, Jiji Abraham**



## **Semiconductor Ceramics Grain Boundary Effects:**

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**Theory and**

**Application of Rare Earth Materials** Changzhen Wang,2023-05-18 This book starts with a theoretical introduction of the rare earth materials and it subsequently analyzes the essential characteristics of these materials from elements compounds to physical chemistry and metal materials etc Under the supplementary explanation of experimental data and results the research is gradually guided into the multi domain application scene Through extensive analyses this book displays comprehensively the distinguished values of the rare earth materials and the theoretical empirical and practical significance of rare earth materials is unraveled It also covers an exhaustive review of 17 rare earth elements their characteristics and more possibilities in physical chemistry functional materials metallurgy composites and engineering and their prospects in production and technical applications In depth account of the whole spectrum of rare earth material research makes this book a unique reference to academic researchers students and engineers

**Grain Boundary Phenomena in Electronic Ceramics** Lionel M. Levinson,1981

Rheology and Processing of Polymer Nanocomposites Sabu Thomas,Rene Muller,Jiji Abraham,2016-08-25 Rheology and Processing of Polymer Nanocomposites examines the current state of the art and new challenges in the characterization of nanofiller polymer interactions nanofiller dispersion distribution filler filler interactions and interfaces in polymer nanocomposites A one stop reference resource for important research accomplishments in this area it benefits academics researchers scientists and engineers in the field of polymer nanocomposites in their daily work

**Ceramic Microstructures '86** Joseph A. Pask,Anthony G. Evans,2013-11-11 The Proceedings of the International Materials Symposium on Ceramic Microstructures 86 Role of Interfaces presents a comprehensive coverage of the past decade s advances in ceramic science and technology related to microstructures The term microstructure is used in the broad sense and is synonymous with character Character is defined as a complete detailed description of chemical and physical characteristics of a material This symposium is the third in a series held every ten years on ceramic microstructures The first symposium in 1966 had as a subtitle Their Analysis Significance and Production and emphasized the need and importance of characterization in order to fully understand the chemical and physical properties of materials The second Symposium in 1976 placed emphasis on the exploration of characters most suited and needed for Energy Related Applications By the time of that conference the sequence of processing characterization properties was fully accepted It was recognized that characterization was the basis of materials science the objective of processing was to produce a desired character that was considered necessary to realize a given property or behavior To further emphasize the importance of character the symposium dealt primarily with the property character coupling

Sintering Technology Malin Liu,2018-10-31 Sintering technology is an old and extensive technology in many areas and it has been used especially in ceramic fabrication This book covers many fields for example the development of different sintering technologies in recent

years such as spark plasma sintering flash sintering microwave sintering reaction and laser sintering and so on and also some special ceramic material fabrication methods and applications such as carbon nanotubes mixed with alumina and zirconia ceramics pure and doped zirconia ZnO ceramic varistors and so on      *Scientific and Technical Aerospace Reports* ,1991 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      Extended Defects in Semiconductors D. B. Holt,B. G. Yacobi,2007-04-12 The elucidation of the effects of structurally extended defects on electronic properties of materials is especially important in view of the current advances in electronic device development that involve defect control and engineering at the nanometer level This book surveys the properties effects roles and characterization of extended defects in semiconductors The basic properties of extended defects dislocations stacking faults grain boundaries and precipitates are outlined and their effect on the electronic properties of semiconductors their role in semiconductor devices and techniques for their characterization are discussed These topics are among the central issues in the investigation and applications of semiconductors and in the operation of semiconductor devices The authors preface their treatment with an introduction to semiconductor materials and conclude with a chapter on point defect maldistributions This text is suitable for advanced undergraduate and graduate students in materials science and engineering and for those studying semiconductor physics      *Ferroelectrics Literature Index* T. F. Connolly,2012-12-06 Research on ferroelectricity and ferroelectric materials started in 1920 with the discovery by Valasek that the variation of spontaneous polarization in Rochelle salt with sign and magnitude of an applied electric field traced a complete and reproducible hysteresis loop Activity in the field was sporadic until 1935 when Busch and co workers announced the observation of similar behavior in potassium dihydrogen phosphate and related compounds Progress thereafter continued at a modest level with the undertaking of some theoretical as well as further experimental studies In 1944 von Hippel and co workers discovered ferroelectricity in barium titanate The technological importance of ceramic barium titanate and other perovskites led to an upsurge of interest with many new ferroelectrics being identified in the following decade By 1967 about 2000 papers on various aspects of ferroelectricity had been published The bulk of this widely dispersed literature was concerned with the experimental measurement of dielectric crystallographic thermal electromechanical elastic optical and magnetic properties A critical and excellently organized compilation based on these data appeared in 1969 with the publication of Landolt Bornstein Volume 111 3 This superb tabulation gave instant access to the results in the literature on nearly 450 pure substances and solid solutions of ferroelectric and antiferroelectric materials Continuing interest in ferroelectrics spurred by the growing importance of electrooptic crystals resulted in the publication of almost as many additional papers by the end of 1969 as had been surveyed in Landolt Bornstein      *Solar Energy Update* ,1981      *Ceramic Sensors* Toshko Nenov,Stefcho P. Yordanov,1996-01-05 From the Author s Preface Ceramic sensors have been in use for more than thirty years Since ceramics

exhibit a number of specific characteristics that enable their cost to become lower and their reliability to increase they have occupied a significant position in sensor technology This is why many companies and universities have directed their efforts towards investigating and developing new ceramic sensors and expanding their areas of application To the best of our knowledge there has been no book treating different sensors on the basis of their common physical and chemical properties technological principles and applications This book is a detailed survey of ceramic sensors and a generalization of the results achieved in this field so far Ceramic sensors for different physical quantities are discussed without going too deep into theory The concept of ceramic sensors includes all sensors that are produced using ceramic technology It also covers thick film sensors since from a structural and technological point of view they can be regarded as a variety of ceramic sensors The subject of scientific research in this book is humidity gas temperature and pressure sensors on the basis of semiconductor and dielectric ceramic materials and solid electrolytes Special attention is paid to the physical and chemical as well as the technological bases of ceramic sensors their classification the types of materials used the methods of controlling their parameters and characteristics the areas of application and the electric circuits for connecting the sensors

**Mechanical and Thermal Properties of Ceramics** J. B. Wachtman, 1969      **Basics of Civil & Mechanical Engineering** Thakur Publication, 2021-03-03 Buy Solved Series of Basics of Civil Mechanical Engineering E Book for B Tech I II Semester Students Common to All of APJ Abdul Kalam Technological University KTU Kerala      Proceedings of the Third International Symposium on Ionic and Mixed Conducting Ceramics T. A. Ramanarayanan, 1998      *Tailored Functional Oxide Nanomaterials* Chiara Maccato, Davide Barreca, 2022-03-02 Tailored Functional Oxide Nanomaterials A comprehensive exploration of the preparation and application of metal oxide nanomaterials Tailored Functional Oxide Nanomaterials From Design to Multi Purpose Applications delivers a one of a kind discussion of the fundamentals and key applications of metal oxide nanomaterials The book explores everything from their preparation to the mastering of their characteristics in an interdisciplinary view The distinguished authors address theoretical research and advanced technological utilizations illustrating key issues for the understanding and real world end uses of the most important class of inorganic materials The interplay between the design preparation chemico physical characterization and functional behaviors of metal oxide nanomaterials in a variety of fields is presented Up to date work and knowledge on these materials is also described with fulsome summaries of important applications that are relevant to researchers pursuing safety sustainability and energy end uses Readers will also find A thorough introduction to vapor phase growth of metal oxide thin films and nanostructures Comprehensive explorations of addressing complex transition metal oxides at the nanoscale including bottom up syntheses of nano objects and properties Practical discussions of nanosized oxides supported on mats of carbon nanotubes including synthesis strategies and performances of Ti CNT systems In depth examinations of computational approaches to the study of oxide nanomaterials and nanoporous oxides Perfect for materials scientists inorganic chemists physicists catalytic chemists

and chemical engineers Tailored Functional Oxide Nanomaterials will also earn a place in the libraries of solid state chemists

*Transparent Electronics* John F. Wager, Douglas A. Keszler, Rick E. Presley, 2007-11-20 This monograph is the first roadmap for transparent electronics It defines and assesses what and where the field is where it is going and what needs to happen to get it there Although the central focus of this monograph involves transparent electronics many of the materials devices circuits and process integration strategies discussed will be of great interest to researchers working in other emerging fields including printed electronics large area electronics low cost electronics and disposable electronics

*Energy Research Abstracts* ,1989      **Ceramic Materials Research** R. Brook, 1989-05-01 The high expectations set on ceramic materials in recent years have always been balanced by the very considerable difficulties seen in reaching the required levels of reproducibility and cost Indications of the significant progress which can be seen in the papers presented in this volume coupled with the recognition that considerable problems still lie between the state of the art and the full and confident exploitation of the many merits of ceramics provide a healthy basis for the profitable selection of future research directions The mastery of ceramic processing and the imaginative matching of the properties of these materials to diverse applications remain among the most promising sectors for technological development      *Chemical Abstracts* ,2002

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