

# **Effect of Disorder and Defects in Ion-Implanted Semiconductors: Electrical and Physicochemical Characterization**

**Volume Editors**

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**SEMICONDUCTORS AND SEMIMETALS VOLUME 45**

**Treatise Editors: R. K. Wilkerson and Eicke R. Weber**

# Effect Of Disorder And Defects In Ion Implanted Semiconductors Vol 45 Electrical And Physiochemical Characterization

**Zhe Xu**



## **Effect Of Disorder And Defects In Ion Implanted Semiconductors Vol 45 Electrical And Physiochemical Characterization:**

**Effect of Disorder and Defects in Ion-Implanted Semiconductors: Electrical and Physiochemical Characterization** ,1997-05-23 Defects in ion implanted semiconductors are important and will likely gain increased importance in the future as annealing temperatures are reduced with successive IC generations Novel implant approaches such as MdV implantation create new types of defects whose origin and annealing characteristics will need to be addressed Publications in this field mainly focus on the effects of ion implantation on the material and the modification in the implanted layer after high temperature annealing Electrical and Physicochemical Characterization focuses on the physics of the annealing kinetics of the damaged layer An overview of characterization techniques and a critical comparison of the information on annealing kinetics is also presented Provides basic knowledge of ion implantation induced defects Focuses on physical mechanisms of defect annealing Utilizes electrical and physico chemical characterization tools for processed semiconductors Provides the basis for understanding the problems caused by the defects generated by implantation and the means for their characterization and elimination

**Isotope Effects in Solid State Physics** ,2000-10-24 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 producing 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 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 First book on the extremely fashionable subject Adopts an original approach to the subject Timely book in a field making significant progress Introduces new optical tools for solid state physics with wide technological potential Important applications are to be expected for information storage isotopic fiber optics and tunable solid state lasers isotopic optoelectronics as well as neutron transmutation doping Accessible to physics chemists electronic engineers and materials scientists Contents based on recent theoretical developments

Identification of Defects in Semiconductors ,1998-07-02 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

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*Defects in Semiconductors*, 2015-06-08 This volume number 91 in the Semiconductor and Semimetals series focuses on defects in semiconductors Defects in semiconductors help to explain several phenomena from diffusion to getter and to draw theories on materials behavior in response to electrical or mechanical fields The volume includes chapters focusing specifically on electron and proton irradiation of silicon point defects in zinc oxide and gallium nitride ion implantation defects and shallow junctions in silicon and germanium and much more It will help support students and scientists in their experimental and theoretical paths Expert contributors Reviews of the most important recent literature Clear illustrations A broad view including examination of defects in different semiconductors

*Hydrogen in Semiconductors II*, 1999-05-05 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 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 Provides the most in depth coverage of hydrogen in silicon available in a single source Includes an extensive chapter on the neutralization of defects in III b1V semiconductors Combines both experimental and theoretical studies to form a comprehensive reference

Chemical Mechanical Polishing in Silicon Processing, 1999-10-29 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 producing 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 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

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**Semiconductor Nanowires II: Properties and Applications** ,2016-01-11 Semiconductor Nanowires Part B and Volume 94 in the Semiconductor and Semimetals series focuses on semiconductor nanowires Includes experts contributors who review the most important recent literature Contains a broad view including examination of semiconductor nanowires

**Recent Trends in Thermoelectric Materials Research: Part Three** ,2001-01-03 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 producing

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**Processing and Properties of Compound Semiconductors**, 2001-10-20 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through

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glass fibers are a component of devices used to perform laser surgery This book is a comprehensive survey of the current state of science and technology in the field of chalcogenide semiconductor glasses While the majority of the book deals with properties of chalcogenide glass chapters also deal with industrial applications synthesis and purification of chalcogenide glass and glass structural modification The first individual or collective monograph written by Eastern European scientists known to Western readers regarding structural and chemical changes in chalcogenide vitreous semiconductors CVS Chapters written by B G Kolomiets who discovered the properties of chalcogenide glass in 1955 Provides evidence and discussion for problems discussed by authors from opposing positions     **Advances in Semiconductor Lasers** ,2012-06-12 Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors Originally widely known as the Willardson and Beer Series it has succeeded in publishing numerous landmark volumes and chapters The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field 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 academia scientific laboratories and modern industry The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field     III-Nitride Semiconductor Optoelectronics ,2017-01-05 III Nitride Semiconductor Optoelectronics covers the latest breakthrough research and exciting developments in the field of III nitride compound semiconductors It includes important topics on the fundamentals of materials growth characterization and optoelectronic device applications of III nitrides Bulk quantum well quantum dot and nanowire heterostructures are all thoroughly explored Contains the latest breakthrough research in III nitride optoelectronics Provides a comprehensive presentation that covers the fundamentals of materials growth and characterization and the design and performance characterization of state of the art optoelectronic devices Presents an in depth discussion on III nitride bulk quantum well quantum dot and nanowire technologies     **Semiconductor Nanowires I: Growth and Theory** ,2015-11-26 Semiconductor Nanowires Part A Number 93 in the Semiconductor and Semimetals series focuses on semiconductor nanowires Contains comments from leading contributors in the field semiconductor nanowires Provides reviews of the most important recent literature Presents a broad view including an examination of semiconductor nanowires Comprises up to date advancements in the technological development of nanowire devices and systems and is comprehensive enough to be used as a reference book on nanowires as well as a graduate student text book     Semiconducting Chalcogenide Glass III Robert Fairman,Boris Ushkov,2004-12-17 Chalcogenide glass is made up of many elements from the Chalcogenide group The glass is transparent to infrared light and is useful as a semiconductor in many electronic devices For example chalcogenide glass fibers are a component of devices used to perform laser surgery Semiconducting Chalcogenide Glass III Applications of Chalcogenide Glasses is a comprehensive overview of designs of various chalcogenide glass devices are presented including switches phase inverters

voltage stabilizers oscillators indicators and display control circuits memory devices and sensors A special chapter is devoted to chalcogenide glass applications in optical fibers This collective monograph is intended to survey the current state of chalcogenide glass applications to facilitate further development The first collective monograph written by Eastern European scientists covering electrical and optical properties of chalcogenide vitreous semiconductors CVS Contributions by B G Kolomiets who discovered the properties of chalcogenide glass in 1955 Provides evidence and discussion by authors from opposing positions

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