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Silicon



Germanium



Gallium Arsenide



Silicon Carbide



Photoresists



Dopants



Copper



Aluminum

Materials Used In Semiconductor Devices

Linda Gail Christie, John Christie



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Semiconductor Materials presents physico chemical electronic electrical elastic mechanical magnetic optical and other properties of a vast group of elemental binary and ternary inorganic semiconductors and their solid solutions It also discusses the properties of organic semiconductors Descriptions are given of the most commonly used semiconductor devices charge coupled devices field effect transistors unijunction transistors thyristors Zener and avalanche diodes and photodiodes and lasers The current trend of transitioning from silicon technology to gallium arsenide technology in field effect based electronic devices is a special feature that is also covered More than 300 figures and 100 tables highlight discussions in the text and more than 2 000 references guide you to further sources on specific topics Semiconductor Materials is a relatively compact book containing vast information on semiconductor material properties Readers can compare results of the property measurements that have been reported by different authors and critically compare the data using the reference information contained in the book Engineers who design and improve semiconductor devices researchers in physics and chemistry and students of materials science and electronics will find this a valuable guide *DDC Retrieval and Indexing Terminology* Defense Documentation Center (U.S.),1975 **Library of Congress Subject Headings** Library of Congress. Cataloging Policy and Support Office,2009 **Library of Congress Subject Headings** Library of Congress,2003 **Semiconductor Materials** B.G. Yacobi,2003-01-31 The main objective of this book is to provide an introductory perspective of the basic principles of semiconductors being an integrated overview of the basic properties applications and characterization of semiconductors in a single volume This book is suitable for both undergraduate and graduate students and for researchers working in a wide variety of fields in physical and engineering sciences who require an introductory and concise description of the field of semiconductors *Materials for High-Temperature Semiconductor Devices* National Research Council,Division on Engineering and Physical Sciences,National Materials Advisory Board,Commission on Engineering and Technical Systems,Committee on Materials for High-Temperature Semiconductor Devices,1995-09-14 Major benefits to system architecture would result if cooling systems for components could be eliminated without compromising performance This book surveys the state of the art for the three major wide bandgap materials silicon carbide nitrides and diamond assesses the national and international efforts to develop these materials identifies the technical barriers to their development and manufacture determines the criteria for successfully packaging and integrating these devices into existing systems and recommends future research priorities Materials Used in Semiconductor Devices. Edited by C.A. Hogarth. [By Various Authors. With Illustrations.]. Cyril Alfred HOGARTH,1965 **"Code of Massachusetts regulations, 2016"** ,2016 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **"Code of Massachusetts regulations, 2013"** ,2013 Archival snapshot of entire

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