

Materials are Used in Semiconductor Manufacturing



Silicon



Germanium



Gallium Arsenide



Silicon Carbide



Photoresists



Dopants



Copper



Aluminum

Materials Used In Semiconductor Devices

Linda Gail Christie,John Christie

Materials Used In Semiconductor Devices:

Materials Used in Semiconductor Devices ,1965 **Semiconductor Materials** Lev I. Berger,2020-12-17

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

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Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 *Guide To Semiconductor Engineering* Jerzy Ruzyllo, 2020-03-10 The Guide to Semiconductor Engineering is concerned with semiconductor materials devices and process technologies which in combination constitute an enabling force behind the growth of our technical civilization This book was conceived and written keeping in mind those who need to learn about semiconductors who are professionally associated with select aspects of this technical domain and want to see it in a broader context or for those who are simply interested in state of the art semiconductor engineering In its coverage of semiconductor properties materials devices manufacturing technology and characterization methods this Guide departs from textbook style monothematic in depth discussions of each topic Instead it considers the entire broad field of semiconductor technology and identifies synergistic interactions within various areas in one concise volume It is a holistic approach to the coverage of semiconductor engineering which distinguishes this Guide among other books concerned with semiconductors related issues

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Semiconductor Material and Device Characterization Dieter K. Schroder, 1998-06-17 Semiconductor Material and Device Characterization is the only book on the market devoted to the characterization techniques used by the modern semiconductor industry to measure diverse semiconductor materials and devices It covers the full range of electrical and optical characterization methods while thoroughly treating the more specialized chemical and physical techniques This newly revamped and expanded Second Edition incorporates the many innovations that have come to dominate the field during the past decade From scanning probe techniques to the detection of metallic impurities in silicon wafers to the use of microwave reflection to measure contactless resistivity each chapter presents state of the art tools and techniques most of which were in their infancy or had not yet been developed when the previous edition first came out Featured here are An entirely new chapter on reliability and probe microscopy Numerous examples and end of chapter problems new to this edition Five hundred illustrations revised for this edition Updated bibliography with over 1 200 references Easy to use text including a real world mix of units rather than strictly MKS units This practical new edition is ideal for textbook adoptions at the graduate level and is destined to become an essential reference for research and development teams in the semiconductor industry *New Information Technologies in the Road Transport Sector* European Conference of Ministers of Transport, 1995 **"Code of Massachusetts regulations, 2010"** ,2010 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **"Code of**

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