

ISBN: 1580538185

Editorial Reviews

Providing you with a comprehensive and up-to-date understanding of organic and inorganic nanostructures, this cutting-edge resource covers all aspects of this fast-growing area of nanotechnology. The book explores the technology, structure, and electrical and optical properties of organic/inorganic nanostructures, as well as their application in microelectronic, optoelectronic, and nano-electronic devices. This unique reference offers you practical insight into the selection and optimization of thin films and nanostructures for specific applications, the development of novel nano-electronic and sensing devices, and the optical characterization of a wide range of composite materials and nanostructures.

You find a thorough overview of the most important research in the field, including critical details on the physics and technology of thin films, nanostructures, and chemical- and bio-sensing. Supported with over 110 illustrations and 80 equations, the book presents new, experimental methods of studying nanostructures and nanostructured materials, and offers you a look at the future direction of nanoelectronics.

About the Author

Alexei V. Nabok is a senior lecturer at the Material Engineering Research Institute, Sheffield Hallam University. Dr. Nabok received an M.Sc. in radiophysics and electronics from Kiev State University, Ukraine and a Ph.D. in physics of semiconductors and dielectrics from the Institute of Semiconductor Physics, Academy of Sciences of the Ukraine.

[Buy It](#)

Search for Other Books:



[Back](#)

1999 - 2005 Copyright ©, International Frequency Sensor Association (IFSA). All Rights Reserved.

This book provides professionals and researchers with a comprehensive and up-to-date understanding of organic and inorganic nanostructures - materials formed by chemical routes that engineers can use to build a wide range of electronic devices and sensors. Practitioners gain insight into the selection and optimization of nanostructures for specific applications and the development of novel nanoelectronic and sensing devices. Moreover, the book provides a thorough overview of the most important research in the field, presents experimental methods of studying nanostructures and nanostructured materials.