Diamond Electronics and Bioelectronics - Fundamentals to Applications III: Volume 1203 (Paperback)

By -

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2014. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.This book demonstrates the swift progress achieved in the field of diamond for electronic and bioelectronic applications. Predicted to become the ultimate semiconductor in the early 1990s, diamond initially failed to match the impressive developments made with other wide-bandgap semiconductors. The situation is changing, with single-crystal electronic-grade diamond becoming a commercially available material. As importantly, the spectacular properties of single-point defects in diamond, as well as its superlative thermal conductivity, radiation hardness and inherent biocompatibility, are being recognized as vital for devices used in biosensing, quantum informatics, and environmentally challenging applications. Not all recent advances relate to single-crystal diamond. Nanocrystalline diamond (NCD), ultra-nanocrystalline diamond (UNCD) and diamond-like carbon (DLC) are very important forms of carbon, as are multiphase carbon nanostructures and graphene. This book features results in all areas of high-performance diamond research. Chemical, electrochemical, and biochemical sensing, including nanodiamond for sensing in-cellular environment, and the integration of diamond within biological systems, are highlighted.

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