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Titolo	CVD diamond for electronic devices and sensors [[electronic resource] /] / edited by Ricardo S. Sussmann
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Descrizione fisica	1 online resource (603 p.)
Collana	Wiley series in materials for electronic and optoelectronic applications
Classificazione	UP 3100 UQ 8220 ZN 4174
Altri autori (Persone)	SussmannRicardo S
Disciplina	621.381 666.88
Soggetti	Electronics - Materials Diamonds, Artificial Chemical vapor deposition Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	CVD Diamond for Electronic Devices and Sensors; Contents; Series Preface; Preface; List of Contributors; Basic Properties, Defects and Impurities, Surface properties and Synthesis; 1 Basic Properties of Diamond: Phonon Spectra, Thermal Properties, Band Structure; 2 Transport Properties of Electrons and Holes in Diamond; 3 Point Defects, Impurities and Doping; 4 Surface Conductivity of Diamond; 5 Recent Progress in the Understanding of CVD Growth of Diamond; 6 Heteroepitaxial Growth; Radiation Sensors; 7 Detectors for UV and Far UV Radiation; 8 Diamond Radiation Sensors for Radiotherapy 9 Radiation Sensors for High Energy Physics Experiments10 CVD-Diamond Detectors for Experiments with Hadrons, Nuclei, and Atoms; 11 Neutron Detectors; Active Electronic Devices; 12 High-Power Switching Devices; 13 H-Terminated Diamond Field-Effect Transistors; 14 Doped Diamond Electron Devices; 15 Optoelectronic Devices Using

Homoepitaxial Diamond p -n and p -i -n Junctions; Electrochemical and Biological Sensors; 16 Biofunctionalization of Diamond Surfaces: Fundamentals and Applications; 17 Diamond Electrochemical Sensors; Micro-Electro-Mechanical Systems; 18 CVD Diamond MEMS Superconductivity in CVD Diamond19 Superconductivity in Diamond

Sommario/riassunto

Synthetic diamond is diamond produced by using chemical or physical processes. Like naturally occurring diamond it is composed of a three-dimensional carbon crystal. Due to its extreme physical properties, synthetic diamond is used in many industrial applications, such as drill bits and scratch-proof coatings, and has the potential to be used in many new application areas A brand new title from the respected Wiley Materials for Electronic and Optoelectronic Applications series, this title is the most up-to-date resource for diamond specialists. Beginning with an introduction to the pr

2. **Record Nr.**

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Titolo

Privacy, security and forensics in the Internet of Things (IoT) // edited by Reza Montasari [and four others]

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3-030-91218-3

Descrizione fisica

1 online resource (219 pages)

Disciplina

004.678

Soggetti

Digital forensic science
Internet of things
Data privacy

Lingua di pubblicazione

Inglese

Formato

Materiale a stampa

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Includes bibliographical references and index.