Record Nr. UNINA9910788465203321 Nanostructured materials, thin films and hard coatings for advanced **Titolo** applications: selected, peer reviewed papers from the 2nd International conference on nanostructured materials, thin films and hard coatings for advanced applications, Sozopol, Bulgaria, May 24-27, 2009 / / edited by Lilyana Kolakieva, Roumen Kakanakov Pubbl/distr/stampa Stafa-Zurich:,: Trans Tech,, [2010] ©2010 **ISBN** 3-03813-370-1 1-61344-731-0 Descrizione fisica 1 online resource (201 p.) Collana Diffusion and defect data. Pt. B. Solid state phenomena., 1012-0394;; volume 159 Altri autori (Persone) KolakievaLilyana KakanakovRoumen Disciplina 620.5 Soggetti Nanostructured materials Thin films Coatings 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 Nanostructured Materials, Thin Films and Hard Coatings for Advanced Applications; Committees; Preface; Table of Contents; Search for Ultrahard Materials and Recent Progress in the Understanding of Hardness Enhancement and Properties of Nanocomposites; Nanomechanics of Coatings for Electronic and Optical Applications; It's a Long Way to "Superhard" Semiconductors; AlGaN/GaN Based Heterostructures for MEMS and NEMS Applications; Some Recent Results on the 3C-SiC Structural Defects: Ultrananocrystalline Diamond / Amorphous Carbon Composite Films - Deposition, Characterization and Applications Structural and Magnetic Properties of Nanosized Barium Hexaferrite Powders Obtained by Microemulsion TechniqueDeposition and Characterization of Aluminium Nitride (AIN) and Diamond Like Carbon

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Sommario/riassunto

This special collection of peer-reviewed papers focuses on the technology, characterization and equipment required for handling nanocomposite films and hard and superhard coatings. It also covers subjects related to the development, properties and methods for the characterization of nanostructured materials for: solid-state electronics and energy technologies; nanocomposite films, hard and superhard coatings, tribological / corrosion-resistant coatings; surfaces and interfaces; nano-sensors, nanodevices and nanosystems, Equipment for deposition and characterization of nanocomposite films and i