Record Nr. UNINA9910828569603321 Advances in materials development: a festschrift honouring Subrata **Titolo** Ray / / edited by B.S.S. Daniel Durntech-Zurich:,: Trans Tech,, [2013] Pubbl/distr/stampa ©2013 **ISBN** 3-03813-939-4 Edizione [1st ed.] Descrizione fisica 1 online resource (347 p.) Materials science forum, , 1662-9752;; v. 736 Collana Altri autori (Persone) RaySubrata DanielB. S. S Disciplina 620.11 Physical metallurgy Soggetti Strength of materials 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 Advances in Materials Development; Foreword, Preface and Dedication; Table of Contents: Phase Field Models as Computer Experiments: Growth Kinetics of Anisotropic Precipitates; Dislocation Dynamics Simulations: Size and Solid Solubility in Electrodeposited Aq-Ni Nanoparticles: First-Principle Investigation of Lithium Intercalation Behavior of a (3, 3) Carbon Nanotube; Molecule Induced Strong Coupling between Ferromagnetic Electrodes of a Molecular Spintronics Device; On Design of Metal-Matrix Composites Lighter than Air Challenges in Manufacturing Aluminium Based Metal Matrix Nanocomposites via Stir Casting RouteFabrication and Characterisation of Al-Al2O3 Composite by Mechanical Alloying; Multifunctional Mesoporous Nanocomposites; Synthesis and Hydrogen Storage Properties of Magnesium Nanoparticles with Core/Shell Structure; Ball-Milled Graphite-Tin Composite Anode Materials for Lithium-Ion Battery; Alloy Developments in Biomedical Co-Base Alloys for HIP Implant Applications: Frontiers in Applied Atomic Layer Deposition (ALD) Research

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Sommario/riassunto

This Festschrift is brought out to honor Professor Ray on his sixty-fifth birthday for his significant contribution to materials development. The collection of invited papers by his colleagues, past students and collaborators which make up this volume reflect the varied interests in materials science of the man himself. Review from Book News Inc.: Daniel (metallurgical and materials engineering, Indian Institute of Technology Roorkee) offers a collection of 26 papers in honor of the 65th birthday of scientist and professor Subrata Ray and his contribution to materials development. Papers have