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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 Ag-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-Al ₂ O ₃ 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 Effect of Disc Geometry on the Steady State Creep in a Rotating Disc Made of Functionally Graded MaterialsSimpler Estimation of Fracture

Toughness during Material Development, Process Optimization and Quality Control of Structural Materials; Dry Sliding Wear Behavior of Hot Forged and Annealed Cu-Cr-Si In Situ Composite; Cavitation and Slurry Erosion of Aluminum in the Slurry Pot Tester; A Parameter for Selection of Nano-Dispersoids in Nanofluids for Thermal Applications; Synthesis and Magnetic Properties of Nanocrystalline Co-Ni Alloys: A Review

Organic Electronics: Successes in Organic Light Emitting Diodes and Display Technology; Inkjet Printed Organic Thin Film Transistors: Achievements and Challenges; Studies on Electroless Coatings at IIT Roorkee - A Brief Review; Microstructural Characterization and Cyclic Oxidation Behavior of HVOF-Sprayed Cr₃C₂-NiCr Coating on Boiler Steel at Elevated Temperature; Texture Effects in the Delithiation of Lithium Cobalt Oxide; Modification in Texture of Magnesium by the Addition of Rare Earth Elements and its Influence on Mechanical Properties; Looking Back; Keywords Index; Authors Index

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
