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Titolo	Ridley's the vulva / / edited by Fiona M. Lewis
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Characterization of Minerals, Metals, and Materials 2017 / / edited by Shadia Ikhmayies, Bowen Li, John S. Carpenter, Jian Li, Jiann-Yang Hwang, Sergio Neves Monteiro, Donato Firrao, Mingming Zhang, Zhiwei Peng, Juan P. Escobedo-Diaz, Chenguang Bai, Yunus Eren Kalay, Ramasis Goswami, Jeongguk Kim

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Soggetti

Materials - Analysis
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Nota di contenuto

Part 1: Soft Materials -- Charpy Toughness Behavior of Fique Fabric Reinforced Polyester Matrix Composites -- Comparative Analysis of Curaua Fiber Density Using the Geometric Characterization and Pycnometry Technique -- Izod impact tests in polyester matrix composites reinforced with blanket of the malva and jute fibers -- Tensile Behavior of Epoxy Matrix Composites Reinforced With Eucalyptus Fibers -- The dimensional characterization of jute fabric strips for reinforcement in composite polymeric -- Izod Toughness Behavior of Continuous PALF Fibers Reinforced Polyester Matrix Composites -- Mechanical, thermal, morphology and barrier properties of flexible film based on polyethylene-ethylene vinyl alcohol blend reinforced with graphene oxide -- Radiation Effects on Crosslinking of Butyl Rubber Compounds -- Part 2: Clays and Ceramics -- Effect of Skin-Core Hierarchical Structure on Dielectric Constant of Injection

Molded and Cast Film Extruded Liquid Crystalline Polymer -- Aging behaviour in Ni0.5CoxMn2.5-xO4 (x=0.5, 0.8 and 1.1) thermistors -- Adsorption of lead from aqueous solutions to bentonite and composite -- Part 3: Electronic, Magnetic, Environmental, and Advanced Materials -- Characterization Of Low-Zinc Electric Arc Furnace Dust -- GAMMA-RADIATION EFFECT ON BIODEGRADABILITY OF SYNTHETIC PLA STRUCTURAL FOAMS PP/HMSPP BASED -- STUDY OF FLEXIBLE FILMS PREPARED FROM PLA/PBAT BLEND AND PLA e-BEAM IRRADIATED AS COMPATIBILIZING AGENT -- Synthesis of ZnO Micro Prisms on Glass Substrates by the Spray Pyrolysis Method -- Part 4: Nano Materials -- Electrical and microstructural investigation of Ni0.5Co0.5Cu0.3Zn0.3Mn1.4O4 temperature sensors -- Enhanced physical properties of thin film nanocomposites -- A study on the size and type of inclusions in Si-Mn combined deoxidized low carbon steel strip -- Effect of Argon Gas Purging of Spark Plasma Sintered ZrB₂+SiC Nano-powder Composites -- Part 5: Alloys -- Investigating the Anisotropic Behaviour of Lean Duplex Stainless Steel 2101 -- MICROSTRUCTURAL INVESTIGATION AND IMPACT TESTING OF ADDITIVE MANUFACTURED Ti-6Al-4V -- Part 6: Powders and Foams -- SYNTHESIS OF TiN NANO-COMPOSITE POWDER BY HIGH-ENERGY BALL MILLING OF TiH₂ UNDER NITROGEN ATMOSPHERE -- Application of AFM in Morphology Determination of Powder Material -- Effects of Thermal Processing on Closed-Cell Aluminium Foams -- Experimental Investigation of Mechanical Behaviour of Closed-Cell Aluminium Foams under Drop Weight Impact -- Deformation Mechanisms of Closed Cell-Aluminium Foams during Drop Weight Impact -- Part 7: Minerals -- INDUSTRIAL USE OF BRAZILIAN BENTONITE MODIFIED BY MILD ACID ATTACK -- Mullitization Characteristics and Sinterability of Kyanite in Ceramic Preparation -- Ore Dressing and Technological characterization of Palygorskite from Piauí/Brazil for applications as adsorbent of heavy metals -- TECHNOLOGICAL CHARACTERIZATION OF WASTE FROM GOLD MINING DAM -- Synthesis and Characterization of Sodalite and Cancrinita from Kaolin -- Part 8: Ferrous Metals -- Effects of Alumina and Magnesia on Microstructure and Mineralogy of Iron Ore Sinter -- Isothermal Reduction Kinetics of CaO·2Fe₂O₃ by Thermogravimetric Analysis -- Phase Transformation of MnO₂ and Fe₂O₃ Briquettes Roasted Under CO-CO₂ Atmospheres -- Contact Angle of Iron Ore Particles with Water: Measurements and Influencing Factors -- Important Factors to Consider in FIB Milling of Crystalline Materials -- Part 9: Material Processing and Corrosion -- Corrosion Behavior of Super-Ferritic Stainless Steels in NaCl media -- Effect of bromide ions on the pitting corrosion of hafnium in anhydrous t-butanol and acetonitrile -- Compression Behavior of Semi-Closed Die Forged AZ80 Extrusion -- Nondestructive Characterization of Microstructures of Heat-Treated Steels by Magnetic Barkhausen Noise Technique -- Part 10: Method Development -- Development of A New Recycling Process of PGM from Metal-supported Catalyst Using Complex Oxide -- Part 11: Composites -- High thermal conducting composites using percolation theory -- SORPTION CHARACTERISTICS OF LOW DENSITY POLYETHYLENE/KOLA NUT COMPOSITE -- Residual Stress Analysis within Steel Encapsulated Metal Matrix Composites Via Neutron Diffraction -- Tensile Behavior of Epoxy Matrix Composites Reinforced With Pure Ramie Fabric -- Hemp Fiber Density Using the Pycnometer Technique -- Preparation and Characterization of Clay Exfoliation and Vegetal fibre on Properties of Recycled Low Density Polyethylene (rLDPE) -- Part 12: Ferrous Metals -- Estimation of Dislocation Density in Metals from Microhardness Test -- Part 13: Welding and Solidification -- Interfacial strength characterization in a high-modulus

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SUBSTITUTE IN FINE AGGREGATE -- Synthesis and structural characterization of BaTiO₃ doped with Gd³⁺ -- Texture analysis and anisotropic properties of a rolled CuZn36 brass alloy -- The influence of titanium content on the sinter ore phase structure and the crack -- The use of Network Simplex method for planning the incorporation of recycled paper mill sludge in manufacturing of ceramic bodies -- USE OF ALKALINE SOLID WASTES FROM KRAFT PULP AND PAPER MILLS, DREGS AND GRITS IN CEMENT PRODUCTION -- Wood-to-concrete joints using steel connectors: experimental evaluation.

Sommario/riassunto

This collection gives broad and up-to-date results in the research and development of materials characterization and processing. Coverage is well-rounded from minerals, metals, and materials characterization and developments in extraction to the fabrication and performance of materials. In addition, topics as varied as structural steels to electronic materials to plant-based composites are explored. The latest research presented in this wide area make this book both timely and relevant to the materials science field as a whole. The book explores scientific processes to characterize materials using modern technologies, and focuses on the interrelationships and interdependence among processing, structure, properties, and performance of materials. Topics covered include ferrous materials, non-ferrous materials, minerals, ceramics, clays, soft materials, method development, processing, corrosion, welding, solidification, composites, extraction, powders, nanomaterials, advanced materials, and several others.
