1. Record Nr. UNINA9910786283403321

Titolo	Metallurgy technology and materials : selected, peer reviewed papers from the 2012 International Conference on Metallurgy Technology and Materials (ICMTM 2012), May 11-12, 2012, Jeju Island, South Korea / / edited by Tony Sun
Pubbl/distr/stampa	Durnten-Zurich, Switzerland ; ; Enfield, NH : , : Trans Tech Publications, , [2012] ©2012
ISBN	3-03813-887-8
Descrizione fisica	1 online resource (297 p.)
Collana	Advanced materials research ; ; v. 567
Altri autori (Persone)	SunJianguo <1961->
Disciplina	669
Soggetti	Metallurgy Materials processing
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	Metallurgy Technology and Materials; Preface; Table of Contents; Chapter 1: Advanced Materials and Technology on Metallurgy; Vibration Analysis and Simulation of Mast Section of Hoist; Cleaness of the First Pipeline Steel Slab along with Casting Direction; Microstructure and Properties of In Situ Fabricated Al-5wt.%Si-Al2O3 Composites; Mossbauer and Magnetic Property Study on Cyano-Bridged Complex [Gu(en)x]yMA[Fe(CN)6]z·nH2O(MA=K+); Synthesis of ZnO Nanoparticle by Solid State Reaction and its Influence on Zinc Electrode; Microstructure Evolution of Ti-9.2Mo-2Fe Alloy A Comparative Study of SHS Synthesis of TiB2 Cermets Powder by Magnesium Reduction and Aluminothermy ReductionMechanical Characterization of Ti-Mo-Fe Titanium Alloy; Preparation of Flowerlike Indium Oxide Films by a Simple CVD Method; Corrosion Behaviour of Zn-Al Pseudo-Alloy Coating on Carbon Steel in Chloride Environments; Mechanical and Microstructural Properties of Al-Added ODS Ferritic Steel; Study of Fatigue Properties of AISI4130 Steel Joined by Upset Welding in Heat Treated Condition; Improvement of Abrasion Wear Resistance of Ductile Iron by Two-Step Austempering Effect of Basicity on Continuous Casting Mold Flux Properties

Relationship between Load, Rotation Speed and, Strength in All - PEEK and PEEK Race - PTFE Retainer Hybrid Polymer Bearings under Dry Rolling Contact Fatigue; The Effect of Isothermal Treatment on the Microstructure and Properties of High Performance Steels; Peritectic-Steel Mold Fluxes; Microstructure and Mechanical Properties in Ultra-High Strength Steel with Tensile Strength 1000MPa; Determine Coverlay Thickness According to Air Leakage Characteristics in Open Pit to Underground Overlay
Precipitation Behavior of a Maraging Stainless Steel Influence of MgO Additive on Fluidized Bed Reduction of Iron Ore Fines under Simulate COREX Reducing Gas; Aging Behaviors of Ti-Al-Mo-Fe Titanium Alloy; Al-Mg Deoxidation of High Nitrogen Steels in VIF; Effects of Hot Working and Heat Treatment on Properties of Ti-62A Alloy Plate; Effects of Processing Technic on Grain Size of Copper Clad Steel Wire; Microporous Bio-Membrane Materials Based on High Molecular Weight Polylactide and Low Molecular Weight Poly(ethylene glycol)
Preparation of ZnAl2O4 Spinel Directly from Zinc Aluminum Layered Double Hydroxide PrecursorProcess Mineralogy of an Oolitic Hematite Ore and its Implications for Mineral Processing; Shape Memory Characteristics of NiTi Alloy Wire under Various Constrained Stresses; Simulation of Casting Process for Ductile Iron Wind Generator Rotor Shaft; Study on Automobile Body Performance of Honeycomb Sandwich Composite Material; Chapter 2: Materials Engineering and Production Technologies; The Study of SiC Substrate MgB2 thick Films Growing along C Axis
The Study of Microstructure and Electric Resistivity of SiC Thin Films Produced by MF Magnetron Sputtering

Sommario/riassunto

The objective of ICMTM 2012 was to present the latest research results of scientists and engineers in the fields of Metallurgy, Mining Engineering, Advanced Materials Science and Materials Processing Technology. The peer-reviewed papers are grouped into chapters: 1 - Advanced Materials and Technology in Metallurgy; 2 - Materials Engineering and Production Technologies. Review from Book News Inc.: The 59 papers in this collection were selected for presentation on the basis of their originality, clarity, and relevance to the conference themes of metallurgy, mining engineering, advanced materials