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Nota di contenuto	2nd International Symposium on High-Temperature Metallurgical Processing; TABLE OF CONTENTS; Foreword; Editors; 2nd International Symposium on High-Temperature Metallurgical Processing; Energy Efficient New Metal Production Technology; Intrinsic Hydrogen Reduction Kinetics of Magnetite Concentrate Particles Relevant to a Novel Green Ironmaking Technology; A Laboratory Investigation of the Reduction of the Iron Carbonate Bearing Ore to Iron Nugget by Means of the ITmk3 Technology; Behavior of Coal-Based Direct Reduction Reaction of Iron Oxide Pellets by Microwave Heating

Carbothermal Reduction of Titanium Concentrate at High TemperatureA Simulation Study on Flue Gas Circulating Sintering (FGCS) for Iron Ores; Optimizations of Preparation for U3O8 by Calcination from Ammonium Durante Using Response Surface Methodology; Microwave Field Attenuation Length and Half-Power Depth in Magnetic Materials; Vanukov Furnace Technology: Application Experience for Processing Different Types of Raw Materials and General Development Trends; Microwave Heating and Iron and Steel Production; A Study of Coal-Based Direct Reduction of Composite Binder Magnetite Preheated Pellets
Microwave Dielectric Properties of Pyrolyzed CarbonFugitive Emissions Related to Oxidation of Liquid Silicon during Ladle Refining; Reduction Kinetics of Iron Oxide in CaO-SiO2-Al2O3-FexO-C Mixtures; Optimization of the Process Variables for Making Direct Reduced Iron by Microwave Heating Using Response Surface Methodology; Study on Nucleation and Growth Mechanism of Iron Crystal Grain in Coal-Based Shaft Furnace Direct Reduction Iron Pellets by Microwave Heating; Investigation on a Microwave High-Temperature Air Heat Exchanger; Refractories, Slag and Recycling
Study on Preparation of High-Quality Synthetic Rutile from Titanium Slag by Activation Roasting Followed by Acid LeachingCalculation of Phase Equilibria Relations in CaO-SiO2-FeOx-MgO System; Dissolution Behavior of Rhodium into Molten Slag; ""One Step"" Technology to Separate Copper, Zinc, Lead from Iron in Metallurgical Slag and Pyrite Cinder: Part 2 - Pilot Test; Effect of Oxygen to Alumina Ratio on the Viscosity of Aluminosilicate and Aluminate Systems; Blast Furnace Burdens Preparation from Metallurgical Dusts and Sludges with Composite Binder
Determination of FeO Containing Liquid Slag Surface Tensions Using the Sessile Drop MethodPreparation of Partially Stabilized Zirconia and Interface Structure Analysis; Characteristic of Mineralization of Specularite Iron Ores during Composite Agglomeration Processing; Ferrous and Nonferrous Metals; Enhancing the Pelletization of Brazilian Hematite by Adding Boron Bearing Additives; Study on Improving the Quality of Pellet Made from Vale Hematite Pellet Feed; Decomposition and Oxidation of Bismuthinite in Nitroge-Oxygen Atmospheres Pyrometallurgical Controls of Silver-Residue Smelting in a Short Rotary Furnace

Sommario/riassunto

High Temperature Metallurgical Processing contains the proceedings of the Second International Symposium on Thermal Processing of Minerals, Metals and Materials. This symposium explores physical and chemical transformations in materials that have been designed to facilitate the recovery of valuable metals or produce other useful materials. Representatives from both industry and academia focused on the latest innovative high temperature technologies. Because high temperature processes require high energy input, the presenters addressed the need for sustainable technologies that could pro