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Nota di contenuto	Intro -- Preface -- Contents -- About the Honoree -- About the Editors -- 1 Development of Ironmaking Technology by the Direct Gaseous Reduction of Iron Concentrate -- 2 Evaporation of Phosphorus from FeO-CaO-SiO-PO Synthesized Steelmaking Slag by Carbothermic Reduction -- 3 Lead Bleed-Off from Dust of Copper Smelter -- 4 Simulation and Post-mortem Studies: The Holistic Approach for Optimized and Engineered Lining Concepts -- 5 A Kinetic Description of Physico-Chemical Processes Taking Place in the Burden of HCFeMn Submerged Arc Furnaces -- 6 Lanthanum-Light Metal Alloys Production Using Secondary Resources- Thermodynamic Analysis -- 7 Selective Chlorination as an Innovative Extraction Method for Valuable Metals from Iron Containing Matrix -- 8 High Vacuum Solar Thermal Dissociation for Metal and Oxide Extraction -- 9 Development of a Dynamic Model of Collision and Coalescence for Molten Matte Droplets in Copper Smelting Reaction Shaft Considering Interfacial Deformation -- 10 Options for Sustaining Metallurgical Engineering Education -- 11 Separation of Co(II) Over Ni (II) from Chloride Leached Solution of Spent Li-Ion Batteries Using Cyphos IL104 -- 12 Research and Industrial Application of Selenium and Tellurium Recovery Processes -- 13 Nickel Matte as Novel

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## Sommario/riassunto

This collection addresses new research and technology for increased efficiency, energy reduction, and waste minimization in mineral processing, extractive metallurgy, and recycling. Professor Patrick R. Taylor and his students have been studying these topics for the past 45 years. Chapters include new directions in: · Mineral Processing · Hydrometallurgy · Pyrometallurgy · Electrometallurgy · Metals and E waste recycling · Waste minimization (including by-product recovery) · Innovations in metallurgical engineering education and curriculum development.

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