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Descrizione fisica	1 online resource (XX, 531 p. 286 illus., 25 illus. in color.)
Collana	Topics in Mining, Metallurgy and Materials Engineering
Disciplina	669.96141
Soggetti	Iron alloys Refuse and refuse disposal Chemical engineering Salvage (Waste, etc.) Chemistry, Technical
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Nota di contenuto	Physical-Chemical Bases of Ferroalloys Processing -- The Diagrams of Phase Equilibrium of Metal and Oxide Ferroalloys Systems -- Ferroalloys Processing Classification -- Metallurgy of Silicon and Silicon Carbide -- Metallurgy of Ferrosilicon -- Metallurgy of Manganese Ferroalloys -- Metallurgy of Chromium Ferroalloys -- Metallurgy of Ferrotungsten -- Metallurgy of Ferromolybdenum -- Metallurgy of Ferrovanadium -- Metallurgy of Ferrotitanium -- Ferroalloys with Alkaline Earth Metals -- Metallurgy of Ferroniobium -- Ferrosilicozirconium and Ferro-Alumino-Zirconium -- Ferroaluminum and Silicoaluminum -- Ferroboration and Boron Carbide -- Ferroalloys with Rare Earth Metals -- Iron-Carbon Alloys -- Metallurgy of Ferronickel -- Metallurgy of Cobalt -- Metallurgy of Ferrophosphorus -- Ferroselenium and Ferrotellurium -- Metallurgy of Electrocorundum -- Electrofused Fluxes -- Preparation of Charge Materials for Ferroalloys Smelting -- Ferroalloys Furnaces -- Self-Baking Electrodes -- Ferroalloys Dispersion (Atomizing) -- Environmental Protection in Ferroalloys Industry.
Sommario/riassunto	This book outlines the physical and chemical foundations of high-

temperature processes for producing silicon, manganese and chromium ferroalloys, alloys of molybdenum, vanadium, titanium, alkaline earth and rare earth metals, niobium, zirconium, aluminum, boron, nickel, cobalt, phosphorus, selenium and tellurium, iron-carbon alloys by carbon, silicone and aluminothermic methods. The chapters introduce the industrial production technologies of these groups of ferroalloys, the characteristics of charge materials, and the technological parameters of the melting processes. A description of ferroalloy furnaces is given in detail. Topics such as waste recycling, fines agglomeration technologies, and environmental issues are considered.

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