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Sommario/riassunto	This volume covers various aspects of the fundamentals, synthesis, analysis, design, monitoring, and control of metals, materials, and metallurgical processes and phenomena. Topics represented include but are not limited to: • Experimental, analytical, physical, and computer modeling of physical chemistry and thermodynamics • Modeling of the transport phenomena in materials processing and metallurgical processes involving iron, steel, nonferrous metals, and composites • Second-phase particles in metals and processes and the fundamentals (experimental studies or theoretical studies) on the nucleation, growth, motion, and removal of these particles from the molten metal or reactors • Physical chemistry, thermodynamics, and kinetics for the production and refining of rare-earth metals • Control of industrial processes in the field of extraction and processing of

metals and materials.
