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Nota di contenuto	Chemical Metallurgy; Foreword; Preface; Acknowledgements; Appreciation; Contents; 1 Acquaintance; 1.1 Introduction; 1.2 Materials; 1.3 Some Characteristics of Metals; 1.3.1 General; 1.3.2 Electronic Structure; 1.3.3 Crystallography; 1.3.3.1 Crystal Systems; 1.3.3.2 Metallic Crystal Structures; 1.3.4 Alloying; 1.3.5 Mechanical Properties; 1.3.5.1 Elastic Deformation; 1.3.5.2 Plastic Deformation; 1.3.5.3 Creep Deformation and Fatigue Deformation; 1.3.5.4 Hardness; 1.3.5.5 Toughness; 1.4 Resources of Metals; 1.4.1 General; 1.4.2 Earth's Crust; 1.4.3 Minerals and Ores 1.4.4 Rocks and Ore Deposits1.4.4.1 Igneous Processes of Rock and Ore Formation; 1.4.4.2 Sedimentary Rocks and Sedimentary Processes of Ore Formation; 1.4.4.3 Metamorphic Rocks and Ore Processes; 1.4.5 Other Resources; 1.5 Mineral Properties; 1.6 Mining; 1.6.1 Surface Mining; 1.6.2 Underground Mining; 1.7 Availability; 1.8 Resource Classification; 1.9 Minerals Description; 1.9.1 Molybdenum; 1.9.2 Nickel; 1.9.3 Niobium-Tantalum; 1.9.4 Rare Earths; 1.9.5 Uranium; 1.10 Extraction Flowsheets; 1.10.1 Features; 1.10.2 Process Routes; 1.10.3 Process Reactors; 1.10.3.1 Heat Sources

1.10.3.1.1 Solid Fuels; 1.10.3.1.2 Liquid Fuels; 1.10.3.1.3 Gaseous Fuels; 1.10.3.2 Refractories; 1.10.3.2.1 Classification; 1.10.3.2.2 Physical and Chemical Characteristics; 1.11 Literature; 2 Mineral Processing; 2.1 Introduction; 2.2 Particles; 2.2.1 Particle Shape; 2.2.1.1 Shape Factor; 2.2.1.2 Qualitative and Quantitative Definitions; 2.2.2 Particle Size; 2.2.2.1 Particle Size Measurement; 2.2.3 Surface; 2.2.3.1 Permeability; 2.2.3.2 Gas Adsorption; 2.3 Comminution; 2.3.1 Fracture of Materials; 2.3.1.1 Fracture Mechanisms; 2.3.2 Energy and Power Requirements; 2.3.2.1 Energy Size Relationship; 2.3.2.2 Bond Law; 2.3.2.3 Crushing Efficiency; 2.3.3 Liberation; 2.3.4 Machine Selection; 2.3.5 Machine Types; 2.3.5.1 Crushers; 2.3.5.2 Grinders; 2.3.6 Circuits; 2.3.7 Operational Aspects; 2.4 Mineral Separation; 2.5 Fluid Dynamic Principles; 2.5.1 Particle Settling Phenomena; 2.5.2 Free Settling and Hindered Settling; 2.5.3 Particle Separation; 2.6 Classification; 2.6.1 Classifier Machinery; 2.6.1.1 Mechanical Classifiers; 2.6.1.2 Hydraulic Classifiers; 2.6.1.3 Hydrocyclones; 2.7 Screening; 2.7.1 Passage of Particles; 2.7.2 Ideal and Actual Screens; 2.7.3 Material Balances; 2.7.4 Screen Efficiency and Capacity; 2.7.5 Types of Screens; 2.8 Gravity Concentration; 2.8.1 Gravity Separation Machines; 2.8.1.1 Jigs; 2.8.1.2 Spirals; 2.8.1.3 Tables; 2.8.1.4 Heavy Medium Separators; 2.9 Magnetic Separation; 2.9.1 Magnetic Separators; 2.9.2 Principles; 2.10 Electrostatic Separation; 2.10.1 Electrostatic Separators; 2.11 Flotation; 2.11.1 Principles; 2.11.2 Flotation Chemistry; 2.11.2.1 Surfactants; 2.11.2.1.1 Frothers; 2.11.2.1.2 Collectors; 2.11.2.1.3 Regulators; 2.11.2.2 Sulfide Flotation; 2.11.2.2.1 Principles; 2.11.2.2.2 Examples; 2.11.2.3 Natural Hydrophobicity

Sommario/riassunto

Chemical metallurgy is a well founded and fascinating branch of the wide field of metallurgy. This book provides detailed information on both the first steps of separation of desirable minerals and the subsequent mineral processing operations. The complex chemical processes of extracting various elements through hydrometallurgical, pyrometallurgical or electrometallurgical operations are explained. In the choice of material for this work, the author made good use of the synergy of scientific principles and industrial practices, offering the much needed and hitherto unavailable combination