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Nota di bibliografia	Includes bibliographical references (p. [523]-559) and index.
Nota di contenuto	Introduction -- History of Beryllium -- Sources of Beryllium -- Physical and Nuclear Properties -- Thermodynamics of Extraction -- Mineral Processing -- Extractive Metallurgy -- Chemistry of Beryllium -- Analytical Chemistry of Beryllium -- Beryl Compounds -- Beryllium Intermetallic Compounds -- Amorphous Alloys That Contain Beryllium -- Physical Metallurgy of Beryllium -- Alloying of Beryllium -- Beryllium Binary Phase Diagrams -- Metallography of Beryllium and Beryllium Alloys -- Mechanical Properties of Beryllium -- Casting of Beryllium -- Powder Metallurgy -- Metalworking -- Metal Removal -- Beryllium Coating Processes -- Welding and Joining of Beryllium and Beryllium Alloys -- Adhesive Bonding and Mechanical Fasteners -- Aqueous Corrosion of Beryllium and Beryllium Alloys -- High-Temperature Corrosion of Beryllium and Beryllium Alloys -- Beryllium Waste Recycling -- Medical Aspects of the Toxicity of Beryllium and Beryllium Alloys -- Hygienic Practices for Handling Beryllium and Its Components.
Sommario/riassunto	A comprehensive reference guide to beryllium, its history, and its

chemical, mechanical, and physical properties. The 29 chapters include the mineralogy of beryllium and the preferred global sources of ore bodies. The identification and specifics of the industrial metallurgical processes used to form oxide from the ore and then metal from the oxide are thoroughly described. The special features of beryllium chemistry are introduced, including analytical chemical practices. Beryllium compounds of industrial interest are identified and discussed. Alloying, casting, powder processing, forming, metal removal, joining and other manufacturing processes are covered. The effect of composition and process on the mechanical and physical properties of beryllium alloys assists the reader in material selection. The physical metallurgy chapter brings conformity between chemical and physical metallurgical processing of beryllium, metal, alloys, and compounds. The environmental degradation of beryllium and its alloys both in aqueous and high temperature condition are presented. The health and environmental issues are thoroughly presented the current requirements and established practices for handling beryllium in the workplace are available. A thorough list of references will assist the user of this book.

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