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	Nota di contenuto	Preface Section 1 Magnesium A Multifaceted Metal Chapter 1 Introductory Chapter: Magnesium A Perspective by Abhineet Verma and Sailaja S. Sunkari Chapter 2 Magnesium Alloys for Sustainable Weight-Saving Approach: A Brief Market Overview, New Trends, and Perspectives by Fabrizio D'Errico, Martin Tauber and Michael Just Section 2 Experimental Approaches for Material Applications Chapter 3 Magnesium in Synthesis of Porous and Biofunctionalized Metallic Materials by Mariana Correa Rossi, Liliana Romero Resendiz and Vicente Amigo Borras Chapter 4 The Role of Silane Sol-Gel Coatings on the Corrosion Protection of Magnesium Alloys by Emilia Merino, Alicia Duran and Yolanda Castro Chapter 5 Experimental Investigation of Mechanical and Wear Behaviour of AZ91 Magnesium Hybrid Composite Materials by Palanivel Mathiazhagan and S. Jayabharathy Chapter 6 Magnesium Borates: The Relationship between the Characteristics, Properties, and Novel Technologies by Fatma Tugce Senberber Dumanli.
	Sommario/riassunto	Current Trends in Magnesium (Mg) Research discusses recent research activities in which magnesium plays a central role, in its several forms as composites, alloys, or compounds. Mg alloys/composites/compounds are widely used in the transportation industry (both air and ground) and medical industry (bone/dental implants) and are being tested for use in the energy sector as alternatives to Li-ion batteries. Chapters address such topics as the

role of Mg in diverse fields, the environmental impact of Mg processing technologies, Mg as a biomaterial in aiding the growth of bone tissues, corrosion protection of Mg alloys, the wear behavior of Mg hybrid composites, and synthesis of Mg compounds for practical applications in industry.