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Nota di contenuto	Diffusion in Advanced Materials; Preface; Table of Contents; Chapter I; Superstructure Transformations in High-Temperature Intermetallic Nanolayers: Atomistic Simulation; Chapter II; A Morphology of Diffusion Zone from Entropy Production Calculations; Chapter III; The Decisive Contributions by L. Boltzmann and C. Matano to the Quantitative Analysis of Diffusion Phenomena; Chapter IV; Hollow Hemisphere Shell Formation by Pure Kirkendall Porosity; Chapter V; Molecular Dynamics of the Transport of Ions in a Synthetic Channel; Chapter VI Grain Boundary Diffusion and Grain Boundary Segregation in Metals and AlloysChapter VII; Diffusion in Glassy Metals; Chapter VIII; Defects and Sintering-Induced Diffusion Processes in Yttria-Stabilised Zirconia Nanomaterials Studied by Positron Annihilation Spectroscopy; Chapter IX; Mechanical Activation of Mn-O Oxides: Structural Phase Transitions, Magnetism and Oxygen Isotope Exchange; Chaper X; Peculiarities of Structure and Texture of High-Strength Cu-Nb Composites; Keywords Index; Authors Index
Sommario/riassunto	In the first chapter Prof. Kozubski and colleagues present atomisticsimulations of superstructure transformations of intermetallic nanolayers.In Chapter 2, Prof. Danielewski and colleagues discuss a formalism for themorphology of the diffusion zone in ternary alloys. In

Chapter 3, ProfessorsSprengel and Koiwa discuss the classical contributions of Boltzmann andMatano for the analysis of concentration-dependent diffusion. This isfollowed by Chapter 4 by Professor Cserhati and colleagues on the use of Kirkendall porosity for fabricating hollow hemispheres. In Chapter 5,Professor Morton-Blake rep