

1. Record Nr.	UNINA990007381890403321
Autore	Facchinetti, Marco
Titolo	Corridoi infrastrutturali e trasformazioni del territorio : la pianificazione delle infrastrutture negli Stati Uniti / Marco Facchinetti
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Autore	Phillips Rob (Robert Brooks), <1960->
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Nota di contenuto	Cover; Half-title; Title; Copyright; Dedication; Contents; Preface; Acknowledgements; Notes on Units, Scales and Conventions; ONE Idealizing Material Response; TWO Continuum Mechanics Revisited; THREE Quantum and Statistical Mechanics Revisited; FOUR Energetic Description of Cohesion in Solids; FIVE Thermal and Elastic Properties of Crystals; SIX Structural Energies and Phase Diagrams; SEVEN Point Defects in Solids; EIGHT Line Defects in Solids; NINE Wall Defects in Solids; TEN Microstructure and its Evolution; ELEVEN Points, Lines and Walls: Defect Interactions and Material Response TWELVE Bridging Scales: Effective Theory Construction THIRTEEN Universality and Specificity in Materials; References; Index
Sommario/riassunto	Materials science has emerged as one of the central pillars of the

modern physical sciences and engineering, and is now even beginning to claim a role in the biological sciences. A central tenet in the analysis of materials is the structure-property paradigm, which proposes a direct connection between the geometric structures within a material and its properties. The increasing power of high-speed computation has had a major impact on theoretical materials science and has permitted the systematic examination of this connection between structure and properties. In this graduate textbook, Rob Phillips examines the various methods that have been used in the study of crystals, defects and microstructures and that have made such computations possible. A second key theme is the presentation of recent efforts that have been developed to treat problems involving either multiple spatial or temporal scales simultaneously.
