

1. Record Nr.	UNINA9911019724203321
Titolo	Alloy physics : a comprehensive reference / / edited by Wolfgang Pfeiler
Pubbl/distr/stampa	Weinheim, : Wiley-VCH [Chichester, : John Wiley, distributor], c2007
ISBN	9786611311759 9781281311757 1281311758 9783527614196 3527614192 9783527614202 3527614206
Descrizione fisica	1 online resource (1005 p.)
Altri autori (Persone)	PfeilerWolfgang <1931->
Disciplina	620.16
Soggetti	Alloys - Microstructure Alloys - Surfaces Alloys
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Alloy Physics; Contents; Preface; Foreword; Motto; List of Contributors; 1 Introduction; 1.1 The Importance of Alloys at the Beginning of the Third Millennium; 1.2 Historical Development; 1.2.1 Historical Perspective; 1.2.2 The Development of Modern Alloy Science; 1.3 Atom Kinetics; 1.4 The Structure of this Book; References; 2 Crystal Structure and Chemical Bonding; 2.1 Introduction; 2.2 Factors Governing Formation, Composition and Crystal Structure of Intermetallic Phases; 2.2.1 Mappings of Crystal Structure Types; 2.3 Models of Chemical Bonding in Intermetallic Phases 2.3.1 Models Based on the Valence (or Total) Electron Numbers2.3.2 Quantum Mechanical Models for Metallic Structures; 2.3.3 Electronic Closed-Shell Configurations and Two-Center Two-Electron Bonds in Intermetallic Compounds; 2.3.3.1 Zintl-Klemm Approach; 2.3.3.2 Extended 8 - N Rule; 2.3.3.3 Bonding Models in Direct Space; 2.4

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Sommario/riassunto

Covering the latest research in alloy physics together with the underlying basic principles, this comprehensive book provides a sound understanding of the structural changes in metals and alloys -- ranging from plastic deformation, deformation dynamics and ordering kinetics right up to atom jump processes, first principle calculations and simulation techniques. Alongside fundamental topics, such as crystal defects, phase transformations and statistical thermodynamics, the team of international authors treats such hot areas as nano-size effects, interfaces, and spintronics, as well as
