1. Record Nr. UNINA9910972973803321

Autore	Ohring Milton <1936->
Titolo	Engineering materials science / / Milton Ohring
Pubbl/distr/stampa	San Diego : , : Academic Press, , [1995] ©1995
ISBN	1-281-07087-4 9786611070878 0-08-050569-4 0-585-47049-9
Descrizione fisica	1 online resource (xviii, 827 pages) : illustrations (some color)
Disciplina	620.1/1
Soggetti	Materials science Materials Ciència dels materials
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	Front Cover; ENGINEERING MATERIALS SCIENCE; Copyright Page; CONTENTS; PREFACE; ACKNOWLEDGMENTS; CHAPTER 1. INTRODUCTION TO MATERIALS SCIENCE AND ENGINEERING; 1.1. Materials Resources and Their Implications; 1.2. Materials and Engineering; 1.3. Engineering Materials and Selected Applications; 1.4. Conclusion; Additional Reading; Questions and Problems; CHAPTER 2. ELECTRONS IN ATOMS AND SOLIDS: BONDING; 2.1. Introduction; 2.2. Atomic Electrons in Single Atoms; 2.3. Fingerprinting Atoms; 2.4. Electrons in Molecules and Solids; 2.5. Bonding in Solids; 2.6. Perspective and Conclusion Additional Reading Questions and Problems; CHAPTER 3. STRUCTURE OF SOLIDS; 3.1. Introduction to Crystal Strumre; 3.2. Common Crystal Structures; 3.3. Atom Positions, Directions, and Planes in Crystal Structures; 3.4. Experimental Evidence for Crystal Structure; 3.5. Defects in Crystalline Solids; 3.6. Structural Morphologies and How They Are Revealed; 3.7. Perspective and Conclusion; Additional Reading; Questions and Problems; CHAPTER 4. POLYMERS, GLASSES, CERAMICS, AND NONMETALLIC MIXTURES; 4.1. Introduction; 4.2.

Introduction to Polymers; 4.3. Polymer Chemistry and Structure
4.4. Polymer Morphology 4.5. Inorganic Glasses; 4.6. Ceramics: An Introduction; 4.7. Structure of Ceramics; 4.8. Cement and Concrete; 4.9. Perspective and Conclusion; Additional Reading; Questions and Problems; CHAPTER 5. THERMODYNAMICS OF SOLIDS; 5.1. Introduction; 5.2. Chemical Reactions; 5.3. Single-Component Systems; 5.4. Introduction to Binary Phase Diagrams; 5.5. Additional Phase Diagrams; 5.6. Structure and Composition of Phases; 5.7. Thermodynamics of Surfaces and Interfaces; 5.8. Thermodynamics of Point Defects; 5.9. Perspective and Conclusion; Additional Reading Questions and Problems CHAPTER 6. KINETICS OF MASS TRANSPORT AND PHASE TRANSFORMATIONS; 6.1. Introduction; 6.2. Macroscopic Diffusion Phenomena; 6.3. Atom Movements and Diffusion; 6.4. Nucleation; 6.5. Kinetics of Phase Transformations; 6.6. Generalized Solid-State Kinetics; 6.7. Perspective and Conclusion; Additional Reading; Questions and Problems; CHAPTER 7. MECHANICAL BEHAVIOR OF SOLIDS; 7.1. Introduction; 7.2. Elastic Behavior; 7.3. Plastic Deformation of Metals; 7.4. Role of Dislocations; 7.5. Mechanical Behavior of Polymers; 7.6. Mechanical Behavior of Ceramics and Glasses 7.7. Mechanical Testing of Materials 7.8. Perspective and Conclusion; Additional Reading; Questions and Problems; CHAPTER 8. MATERIALS PROCESSING AND FORMING OPERATIONS; 8.1. Introduction; 8.2. Solidification Processing of Metals; 8.3. Mechanical Forming Operations; 8.4. Powder Metallurgy; 8.5. Polymer Processing; 8.6. Forming Glass; 8.7. Processing of Ceramics; 8.8. Perspective and Conclusion; Additional Reading; Questions and Problems; CHAPTER 9. HOW ENGIHEERING MATERIALS ARE STRENGTHENED AND TOUGHENED; 9.1. Introduction; 9.2. Heat Treatment of Steel
9.3. Ferrous and Nonferrous Alloys: Properties and Applications

Sommario/riassunto

Milton Ohring's Engineering Materials Science integrates the scientific nature and modern applications of all classes of engineering materials. This comprehensive, introductory textbook will provide undergraduate engineering students with the fundamental background needed to understand the science of structure-property relationships, as well as address the engineering concerns of materials selection in design, processing materials into useful products, andhow material degrade and fail in service. Specific topics include: physical and electronic structure; thermodynamics and kinetics;

2.

Record Nr.	UNINA9910133002003321
Titolo	Nuove geometrie della mente : psicoanalisi e bioetica / / a cura di Lorena Preta ; [di] G. Bartolomei ... [et al.]
Pubbl/distr/stampa	Roma [etc.], : Laterza, 1999
Descrizione fisica	233 p. ; ; 21 cm
Collana	Percorsi ; ; 5
Altri autori (Persone)	PretaLorena BartolomeiGiorgio <1951->
Disciplina	150 174 616
Soggetti	Ethics Psychological Theory Psychological Phenomena and Processes Health Care Quality, Access, and Evaluation Humanities Delivery of Health Care Psychiatry and Psychology Bioethics Psychoanalytic Theory
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Papers resulting from the meeting held in Rome, 1998.