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Autore	Wegerif Rupert
Titolo	Dialogic [[electronic resource]]
Pubbl/distr/stampa	Hoboken, : Taylor and Francis, 2013 New York : , : Routledge, , 2013
ISBN	1-283-94245-3 0-203-11122-2 1-136-27792-7
Descrizione fisica	1 online resource (207 p.)
Disciplina	370.157 371.33/44678 371.3344678
Soggetti	Education - Effect of technological innovations on Education -- Effect of technological innovations on EDUCATION / Educational Psychology EDUCATION / General EDUCATION / Research Internet in education - Philosophy Internet in education -- Philosophy Questioning Education Social Sciences Theory & Practice of Education
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	Cover; Dialogic: Education for the Internet Age; Copyright; Dedication; Contents; Acknowledgements; 1. The challenge; 2. Educating dialogue; 3. Educating reason; 4. Educating creativity; 5. Educating technology; 6. Educating science; 7. Educating the planet; 8. Education into dialogue; Notes; References; Index
Sommario/riassunto	Dialogic: Education for the Internet Age argues that despite rapid advances in communications technology, most teaching still relies on

traditional approaches to education, built upon the logic of print, and dependent on the notion that there is a single true representation of reality. In practice, the use of the Internet disrupts this traditional logic of education by offering an experience of knowledge as participatory and multiple. This new logic of education is dialogic and characterises education as learning to learn, think and thrive in the context of working with multiple pers

2. Record Nr.	UNINA9910823317103321
Autore	Gilman John J (John Joseph)
Titolo	Chemistry and physics of mechanical hardness // John J. Gilman
Pubbl/distr/stampa	Hoboken, NJ, : Wiley, c2009
ISBN	9786612188244 9781282188242 1282188240 9780470446836 0470446838 9780470446829 047044682X
Edizione	[1st ed.]
Descrizione fisica	1 online resource (229 p.)
Collana	Wiley series on processing of engineering materials
Classificazione	CHE 380f PHY 202f UQ 8025 WER 720f
Disciplina	620.1/126 620.1126
Soggetti	Hardness Strength of materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	"A Wiley-Interscience publication."
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Nota di contenuto	CHEMISTRY AND PHYSICS OF MECHANICAL HARDNESS; TABLE OF CONTENTS; Preface; 1 Introduction; 1.1 Why Hardness Matters (A Short History); 1.2 Purpose of This Book; 1.3 The Nature of Hardness;

References; 2 Indentation; 2.1 Introduction; 2.2 The Chin-Gilman Parameter; 2.3 What Does Indentation Hardness Measure?; 2.4 Indentation Size Effect; 2.5 Indentation Size (From Macro to Nano); 2.6 Indentation vs. Scratch Hardness; 2.7 Blunt or Soft Indenters; 2.8 Anisotropy; 2.9 Indenter and Specimen Surfaces; References; 3 Chemical Bonding; 3.1 Forms of Bonding; 3.2 Atoms; 3.3 State Symmetries
 3.4 Molecular Bonding (Hydrogen) 3.5 Covalent Bonds; 3.6 Bonding in Solids; 3.6.1 Ionic Bonding; 3.6.2 Metallic Bonding; 3.6.3 Covalent Crystals; 3.7 Electrodynamic Bonding; 3.8 Polarizability; References; 4 Plastic Deformation; 4.1 Introduction; 4.2 Dislocation Movement; 4.3 Importance of Symmetry; 4.4 Local Inelastic Shearing of Atoms; 4.5 Dislocation Multiplication; 4.6 Individual Dislocation Velocities (Microscopic Distances); 4.7 Viscous Drag; 4.7.1 Pure Metals; 4.7.2 Covalent Crystals; 4.8 Deformation-Softening and Elastic Relaxation; 4.9 Macroscopic Plastic Deformation; References
 5 Covalent Semiconductors 5.1 Introduction; 5.2 Octahedral Shear Stiffness; 5.3 Chemical Bonds and Dislocation Mobility; 5.4 Behavior of Kinks; 5.5 Effect of Polarity; 5.6 Photoplasticity; 5.7 Surface Environments; 5.8 Effect of Temperature; 5.9 Doping Effects; References; 6 Simple Metals and Alloys; 6.1 Intrinsic Behavior; 6.2 Extrinsic Sources of Plastic Resistance; 6.2.1 Deformation-Hardening; 6.2.2 Impurity Atoms (Alloying); 6.2.3 Precipitates (Clusters, Needles, and Platelets); 6.2.4 Grain-Boundaries; 6.2.5 Surface Films (Such as Oxides); 6.2.6 Magnetic Domain Walls
 6.2.7 Ferroelectric Domain-Walls 6.2.8 Twin Boundaries; References; 7 Transition Metals; 7.1 Introduction; 7.2 Rare Earth Metals; References; 8 Intermetallic Compounds; 8.1 Introduction; 8.2 Crystal Structures; 8.2.1 Sigma Phase; 8.2.2 Laves Phases; 8.2.3 Ni₃Al; 8.3 Calculated Hardness of NiAl; 8.4 Superconducting Intermetallic Compounds; 8.5 Transition Metal Compounds; References; 9 Ionic Crystals; 9.1 Alkali Halides; 9.2 Glide in the NaCl Structure; 9.3 Alkali Halide Alloys; 9.4 Glide in CsCl Structure; 9.5 Effect of Impurities; 9.6 Alkaline Earth Fluorides; 9.7 Alkaline Earth Sulfides
 9.8 Photomechanical Effects 9.9 Effects of Applied Electric Fields; 9.10 Magneto-Plasticity; References; 10 Metal-Metalloids (Hard Metals); 10.1 Introduction; 10.2 Carbides; 10.3 Tungsten Carbide; 10.4 Borides; 10.5 Titanium Diboride; 10.6 Rare Metal Diborides; 10.7 Hexaborides; 10.8 Boron Carbide (Carbon Quasi-Hexaboride); 10.9 Nitrides; References; 11 Oxides; 11.1 Introduction; 11.2 Silicates; 11.2.1 Quartz; 11.2.2 Hydrolytic Catalysis; 11.2.3 Talc; 11.3 Cubic Oxides; 11.3.1 Alkaline Earth Oxides; 11.3.2 Perovskites; 11.3.3 Garnets; 11.3.3.1 (Y₃Al₅O₁₂)-YAG
 11.4 Hexagonal (Rhombohedral) Oxides

Sommario/riassunto

A comprehensive treatment of the chemistry and physics of mechanical hardness Chemistry and Physics of Mechanical Hardness presents a general introduction to hardness measurement and the connections between hardness and fundamental materials properties. Beginning with an introduction on the importance of hardness in the development of technology, the book systematically covers: Indentation Chemical bonding Plastic deformation Covalent semiconductors Simple metals and alloys Transition metals Intermetallic compounds Ionic crystals