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Titolo	Wind turbine gearbox condition monitoring round robin study [[electronic resource]] : vibration analysis / / S. Sheng, editor
Pubbl/distr/stampa	Golden, Colo. : , : National Renewable Energy Laboratory, , [2012]
Descrizione fisica	1 online resource (xii, 142 pages) : illustrations (some color)
Collana	NREL/TP ; ; 5000-54530
Altri autori (Persone)	ShengS (Shuangwen)
Soggetti	Wind turbines - Design and construction Wind turbines - Data processing Wind-pressure - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed on Sept. 25, 2012). "July 2012."
Nota di bibliografia	Includes bibliographical references (pages 136-142).

2. Record Nr.	UNINA9911006684403321
Autore	Adachi Sadao <1950->
Titolo	The Handbook on optical constants of metals : in tables and figures / / Sadao Adachi
Pubbl/distr/stampa	Hackensack, NJ, : World Scientific Publishing Co Pte Ltd, 2012
ISBN	1-62198-659-4 981-4405-95-7
Descrizione fisica	1 online resource (684 p.)
Disciplina	620.11
Soggetti	Metal coating Metallizing Polymers - Surfaces
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.
Nota di contenuto	Preface; CONTENTS; 1 Introduction; 1.1 Electron Configuration in Atoms; 1.2 Crystal Structure; 1.2.1 Metal and Semimetal Elements; (a) Metallic bond; (b) Body-centered cubic structure; (c) Face-centered cubic structure; (d) Hexagonal close-packed structure; (e) Unusual crystal structure of metals and semimetals; 1.2.2 Transition-Metal Carbides and Nitrides; 1.2.3 Metallic Silicides; 1.2.4 High-Tc Superconductors; (a) YBa ₂ Cu ₃ O ₇ -; (b) Bi ₂ Sr ₂ CaCu ₂ O ₈ ; (c) MgB ₂ ; 1.3 Dielectric Function: Tensor Representation; 1.4 Optical Dispersion Relations; 1.5 Optical Sum Rules; 1.5.1 Inertial Sum Rule 1.5.2 dc-Conductivity Sum Rule 1.5.3 f-Sum Rule; 1.6 Model Dielectric Function; 1.6.1 Intraband Transitions; (a) Lorentz-Drude model; (b) Optical constants and electrical conductivity; 1.6.2 Interband Transitions; References; 2 Metal and Semimetal Elements; 2.1 Ia Metals; 2.1.1 Lithium (Li); References; 2.1.2 Sodium (Na); References; 2.1.3 Potassium (K); References; 2.1.4 Rubidium (Rb); References; 2.1.5 Cesium (Cs); References; 2.2 Ib Metals; 2.2.1 Copper (Cu); References; 2.2.2 Silver (Ag); References; 2.2.3 Gold (Au); References; 2.3 IIa Metals; 2.3.1 Beryllium (Be); References 2.3.2 Magnesium (Mg)References; 2.3.3 Calcium (Ca); References; 2.3.4 Strontium (Sr); References; 2.3.5 Barium (Ba); References; 2.4 IIb Metals; 2.4.1 Zinc (Zn); References; 2.4.2 Cadmium (Cd); References; 2.4.3

Mercury (Hg); References; 2.5 IIIa Metals; 2.5.1 Scandium (Sc); References; 2.5.2 Yttrium (Y); References; 2.6 IIIb Metals; 2.6.1 Aluminium (Al); Reference; 2.6.2 Gallium (Ga); References; 2.6.3 Indium (In); References; 2.6.4 Thallium (Tl); References; 2.7 IVa Metals; 2.7.1 Titanium (Ti); References; 2.7.2 Zirconium (Zr); References; 2.7.3 Hafnium (Hf); References; 2.8 IVb Semimetal and Metal; 2.8.1 Graphite (C); References; 2.8.2 White Tin (b-Sn); References; 2.9 Va Metals; 2.9.1 Vanadium (V); References; 2.9.2 Niobium (Nb); References; 2.9.3 Tantalum (Ta); References; 2.10 Vb Semimetals; 2.10.1 Antimony (Sb); References; 2.10.2 Bismuth (Bi); References; 2.11 VIa Metals; 2.11.1 Chromium (Cr); References; 2.11.2 Molybdenum (Mo); References; 2.11.3 Tungsten (W); References; 2.12 VIIa Metals; 2.12.1 Manganese (Mn); References; 2.12.2 Rhenium (Re); References; 2.13 VIII Metals; 2.13.1 Iron (Fe); References; 2.13.2 Cobalt (Co); References; 2.13.3 Nickel (Ni); References; 2.13.4 Ruthenium (Ru); References; 2.13.5 Rhodium (Rh); References; 2.13.6 Palladium (Pd); References; 2.13.7 Osmium (Os); References; 2.13.8 Iridium (Ir); References; 2.13.9 Platinum (Pt); References; 2.14 Lanthanoids; 2.14.1 Lanthanum (La); References; 2.14.2 Cerium (Ce); References; 2.14.3 Praseodymium (Pr); References; 2.14.4 Neodymium (Nd); References; 2.14.5 Samarium (Sm); References; 2.14.6 Europium (Eu); References; 2.14.7 Gadolinium (Gd); References; 2.14.8 Terbium (Tb); References; 2.14.9 Dysprosium (Dy); References; 2.14.10 Holmium (Ho); References; 2.14.11 Erbium (Er); References

Sommario/riassunto

This book presents data on the optical constants of metal elements (Na, Au, Mg, Hg, Sc, Al, Ti, β -Sn, V, Cr, Mn, Fe, La, Th, etc.) semimetal elements (graphite, Sb, etc.), metallic compounds (TiN, VC, TiSi₂, CoSi₂, etc.) and high-temperature superconducting materials (YBa₂Cu₃O_{7-d}, MgB₂, etc.). A complete set of the optical constants are presented in tabular and graphical forms over the entire photon-energy range. They are: the complex dielectric constant $\epsilon(E) = \epsilon_1(E) + i\epsilon_2(E)$, the complex refractive index $n^*(E) = n(E) + ik(E)$, the absorption coefficient $a(E)$ and the