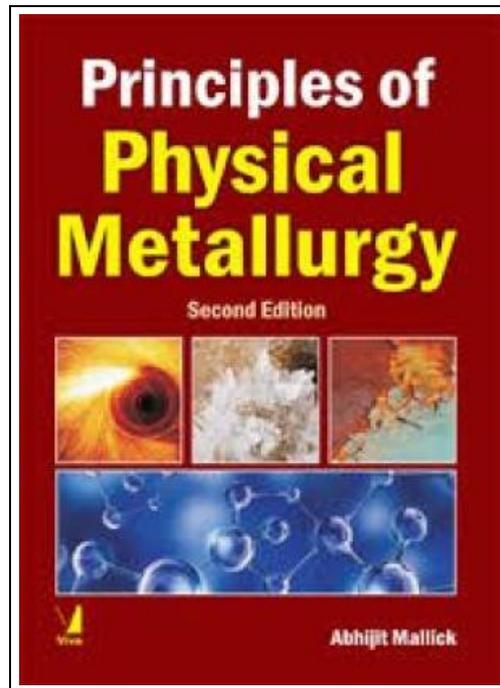


Principles of Physical Metallurgy (Second Edition)



Filesize: 2.15 MB

Reviews

*The book is straightforward in read through better to recognize. it absolutely was writtern quite completely and valuable. Its been printed in an exceptionally simple way which is only after i finished reading this book where really altered me, alter the way i believe.
(Kenyatta Berge DDS)*

PRINCIPLES OF PHYSICAL METALLURGY (SECOND EDITION)

[DOWNLOAD PDF](#)

Viva Books Private Limited, 2015. Softcover. Book Condition: New. 2nd edition. Description: This book is specially designed for the mechanical and production streams of B.E./B. Tech students. It is also a handy reference textbook for those interested in metallurgy. This book focuses on the fundamentals of physical metallurgy including crystal structure and imperfections, phase equilibria, phase transformations and heat treatment. Failure and corrosion properties of materials have been discussed in detail. A detailed discussion of magnetism, conductors and semiconductors is the asset of this book. The book also highlights the optical properties, diffusion, chemical bonding, non-conventional energy resources, ceramics and composites. Appendix I contains a collection of reference tables. Multiple-choice questions, short-answer-type questions, long-answer-type questions and numerical problems are provided in Appendix II of this book as exercise for students. Contents: Chapter 1: Solid State Chemistry? Crystallography ? Unit Cell ? Atomic Radius ? Effective Number of Atoms ? Atomic Packing Factor ? Density of a Cubic Crystal ? Fundamental Laws of Crystallography ? Law of constancy of interfacial angle ? Law of rationality of indices ? Characteristics of Miller indices ? Law of symmetry ? Miller Indices and Interplanar Spacing ? Interplanar spacing ? Miller indices for HCP crystals ? Bragg's Law Chapter 2: Crystal Defects or Imperfections? Point Imperfections ? Imperfection ? Schottky defect ? Frenkel defect ? Non-stoichiometric defects ? Metal excess defects ? Metal deficiency defect ? Impurity defects ? Line Imperfections ? Edge dislocation ? Screw dislocation ? Surface Imperfections ? Driving Force for Extended Dislocation ? Strain Hardening and tPN ? Peierls - Nabarro stress (tPN) ? Critically Resolved Shear Stress ? Dislocation Generator: The Frank-Read Source ? Cross-Slip ? Slip Bands and Invariant Burgers Vector ? Deformation or Mechanical Twinning Chapter 3: Chemical Bonding ? Atom and Molecule ? Atomic Spectrum ? Filling...

[Read Principles of Physical Metallurgy \(Second Edition\) Online](#)[Download PDF Principles of Physical Metallurgy \(Second Edition\)](#)

You May Also Like



Instrumentation and Control Systems

Elsevier Science & Technology. Paperback. Book Condition: new. BRAND NEW PRINT ON DEMAND., Instrumentation and Control Systems, William Bolton, In a clear and readable style, Bill Bolton addresses the basic principles of modern instrumentation and...

[Download ePub »](#)



The Bells, Op. 35: Vocal Score

Petrucchi Library Press, United States, 2013. Paperback. Book Condition: New. 276 x 214 mm. Language: Russian . Brand New Book ***** Print on Demand *****.Composed in 1913 to Konstantin Balmont's free adaptation in Russian...

[Download ePub »](#)



Kolokola, Op. 35: Vocal Score

Petrucchi Library Press, United States, 2013. Paperback. Book Condition: New. 279 x 216 mm. Language: Russian . Brand New Book ***** Print on Demand *****.Composed in 1913 to Konstantin Balmont's free adaptation in Russian...

[Download ePub »](#)



Homeschool Your Child for Free: More Than 1,400 Smart, Effective, and Practical Resources for Educating Your Family at Home

Random House USA Inc, United States, 2009. Paperback. Book Condition: New. 2nd. 229 x 185 mm. Language: English . Brand New Book. Provide a solid education at home without breaking the bank. Introduced in 2000,...

[Download ePub »](#)



The TW treatment of hepatitis B road of hope(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2012-10-28 Pages: 119 Publisher: People's Medical racket Reading: All books are...

[Download ePub »](#)

**Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success**

Brookes Publishing Co. Paperback. Book Condition: new. BRAND NEW, Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success, Eva M. Horn, Susan B. Palmer, Gretchen D. Butera, Joan A. Lieber, How

[Read PDF »](#)

**Psychologisches Testverfahren**

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG,

[Read PDF »](#)

**Access2003 Chinese version of the basic tutorial (secondary vocational schools teaching computer series)**

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 192 Publisher: People's Post Pub. Date :2011-10-01 version 1. Access2003 Tutorial

[Read PDF »](#)

**Ohio Court Rules 2012, Practice Procedure**

Createspace, United States, 2011. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.Superseded by 2013 Edition. This title is available, but should be relied upon

[Read PDF »](#)

**EU Law Directions**

Oxford University Press, United Kingdom, 2014. Paperback. Book Condition: New. 4th ed.. 242 x 188 mm. Language: English . Brand New Book. With a readable and modern writing style, EU Law Directions clearly explains the

[Read PDF »](#)