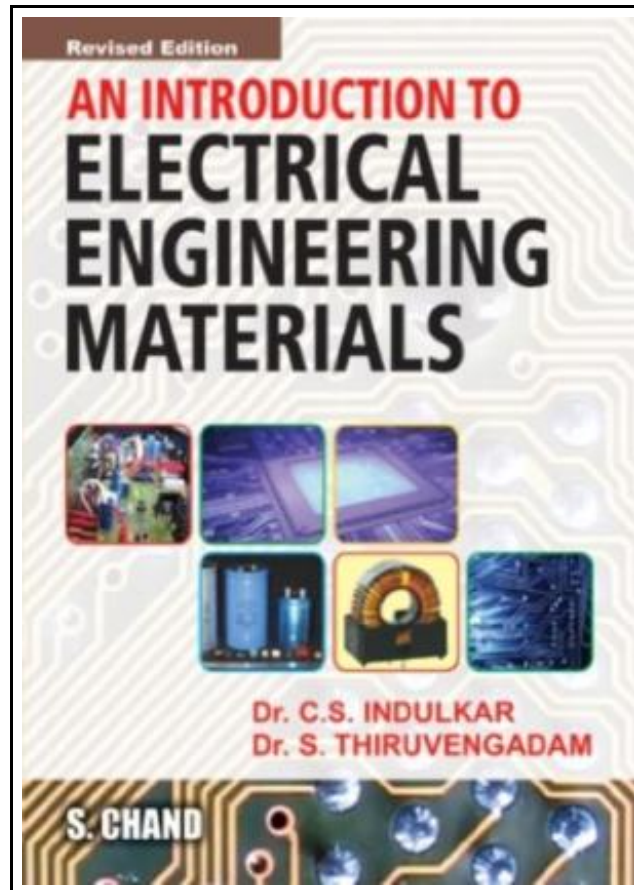


## An Introduction to Electrical Engineering Materials (Revised Edition)



Filesize: 1.19 MB

### ***Reviews***

*It is one of the best books. Indeed, it really is a play, nevertheless an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book.*  
(Sofia Yundt)

## AN INTRODUCTION TO ELECTRICAL ENGINEERING MATERIALS (REVISED EDITION)

DOWNLOAD



S. Chand & Company Ltd, 2013. Softcover. Book Condition: New. 5th or later edition. CONTENTS: I. STRUCTURE OF THE ATOM : 1. Introduction 2. Electron Groups 3. Mechanical Model of the Atom 4. The Wave Nature of Light 5. The Dual Nature of Matter 6. Probability and the Wave Function 7. The Electron wave in one Dimension 8. The Electron Wave in two Dimensions 9. The Electron Wave in Three Dimensions 10. The Wave Function and the Four Quantum Numbers 11. The Pauli Exclusion Principle 12. The Quantization of Energy and Multi-electron States 13. The Electronic Charge Distribution in Multi-electron states 14. Periodic Law 15. Summary of the Behaviour of Electrons in atom`s 16. The Arrangement of atoms in Materials 17. Crystallinity 18. Anisotropy 19. Fractional Volume Packing 20. Crystal Dimensions 21. Miller Indices, Crystal directions and Planes 22. Interplaner Separation 23. Bragg`s Law and X-ray diffraction Problems Self-assessment Questions II. CONDUCTIVITY OF METALS (PART I) : 1. Introduction 2. Factors affecting the Resistivity of Electrical Materials 3. The Electron Gas Model of a Metal 4. Motion of an Electron in an Electric Field 5. Equation of Motion of an Electron 6. The Current Carried by Electrons 7. Mobility 8. Energy Levels of a Molecule 9. Fermi-Dirac Distribution 10. Summary Problems Self-assessment, Questions III. CONDUCTIVITY OF METALS (Part II) : 1. Emission of Electrons from Metals 2. Thermionic Emission 3. Photo-electric Emission 4. Field Emission 5. Secondary Emission 6. Contact Potential 7. Effect of Temperature on Electrical Conductivity of Metals 8. Superconductivity 9. Electrical Conducting Materials 10. Thermal Properties 11. Thermal Conductivity of Metals 12. Specific Heat of Metals 13. Contributions of Electrons to the Heat Capacity of Metals 14. Thermoelectric Effects 15. Operation of Thermo-couple 16. Application of Thermo-dynamics to a Thermo-couple Problems Self-assessment Question IV. DIELECTRIC PROPERTIES (PART...



[Read An Introduction to Electrical Engineering Materials \(Revised Edition\) Online](#)



[Download PDF An Introduction to Electrical Engineering Materials \(Revised Edition\)](#)

## You May Also Like



**Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]**

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

[Read Book »](#)



**Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]**

Createspace, United States, 2013. Paperback. Book Condition: New. 248 x 170 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

[Read Book »](#)



**TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(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 :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

[Read Book »](#)



**TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(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 :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

[Read Book »](#)



**California Version of Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package**

Pearson, United States, 2015. Loose-leaf. Book Condition: New. 10th. 249 x 201 mm. Language: English . Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies...

[Read Book »](#)