



[Electrical Engineering Material Sp Seth Pdf Free Download](#)

4EX4A: ELECTRICAL ENGINEERING MATERIALS**B. Tech. (Electrical & Electronics) 4th Semester****Max. Marks: 80****3L****Exam Hours: 3**

| UNIT | CONTENTS | CONTACT HOURS |
|------|--|---------------|
| 1 | Dielectric Materials: Polarization phenomenon, spontaneous polarization, dielectric constant and loss, piezo and Ferro electricity application. | 8 |
| 2 | Magnetic Materials: Dia, Para, ferro- ferrimagnetisms; soft and hard magnetic materials and their applications. | |
| 3 | Semi-Conductor Materials: Crystal growth, zone refining, Degenerate and no degenerate semiconductors, Direct and indirect band gap semiconductors. | 5 |
| | Electronic properties of silicon, Germanium, Compound Semiconductor, Gallium Arsenide, gallium phosphide & Silicon carbide. | 3 |
| 4 | Conductive & Superconductive Materials: Electrical properties of conductive and resistive materials. Important characteristics and electronic applications of specific conductor & resistance materials. | 5 |
| | Superconductor phenomenon, Type I and Type II superconductors and their applications. | 3 |
| 5 | Passive Components &PCB Fabrication: Brief study of fabrication methods of fixed and variable type of resistors; capacitors, Inductors, solenoid and toroid, air core, iron core and Ferro core conductors. | 4 |
| | Printed Circuit Boards - Types, Manufacturing of copper clad laminates, PCB Manufacturing process, Manufacturing of single and double sided PCBs. Surface mount devices - advantages & limitations. | 4 |

Text Books

| S. No. | Name of authors'/books/publisher | Year of pub. |
|--------|---|--------------|
| 1 | S. O. Kasap, "Principle of Electrical Engineering materials and devices" , 3/e, TMH | 2013 |
| 2 | B. D. Indu, "Electrical Engineering Materials", Jain Brothers. | 2006 |

Reference Books

| S. No. | Name of authors'/books/publisher | Year of pub. |
|--------|--|--------------|
| 1 | Robert M Rose, "Structures and Properties of Materials Volume IV", Electronic Properties, Wiley. | |
| 2 | S. P. Seth and P. V. Gupta, "A Course of Electrical Engineering Materials", DhanpatRai& Sons. | |
| 3 | C. S. Indulkar & S. Thiruvengadam, "An Introduction to Electrical Engineering Materials", S.Chand. | 1994 |
| 4 | A.J. Dekker, "Electrical Engineering Materials", Prentice Hall of India. | 2010 |
| 5 | C.S. Indulkar&S.Triruvagdan "An Introduction to Electrical Engg. Materials, S.Chand& Co. | 2010 |
| 6 | Solyamar, "Electrical Properties of Materials" Oxford University Press.T. K. Basak, "Electrical Engineering Materials" New age International | 2010 |

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