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CHAPTER-1

CONDUCTING MATERIALS

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- 1. What is the main effect of temperature on conducting materials.
- 2. What is ACSR?
- 3. What is superconductivity and its application?
- 4. What is Brass and Bronze?
- 5. What is Tungsten and its use?
- 6. Why copper and aluminium are used as current carrying conductor in overhead lines, compare adn write their other applications.
- 7. Explain the effect of temperature on resistivity?
- 8. What is resistivity?
- 9. Write the two reasons for using copper in flexible wire?
- 10. What is the purpose of annealing?
- 11. Write uses of of low resistivity material?
- 12. Explain properties of high resistive material.
- 13. Explain the properties and uses of platinum as conducting material.
- 14. Write two advantages of aluminium over copper.
- 15. Write the uses of platinum as conducting material
- 16. What is cunife?
- 17. Write a short note on A.C.S.R. conductor
- 18. Write a short notes on carbon as an electric material
- 19. Explain properties of high resistive maetrial
- 20. Write the properties and uses of tungsten?
- 21. Write a short note on superconductivity?
- 22. Write two disadvantages of aluminum over copper?
- 23. Write the uses of silver as conductivity material.

- 24. Write application of superconducting material.
- 25. Write the uses of aluminium?
- 26. What are the advantages of alloying silicon of steel?
- 27. Write the application for super conducting material.
- 28. Write a short note on steel?
- 29. Explain the properties of copper?
- 30. What is a stranded conductor?
- 31. Write the usesof mercury as a conducting material?
- 32. Compare properties of steel and other conducting material.
- 33. Why is copper used in flexible wire?

CHAPTER-2 SEMI CONDUCTING MATERIALS

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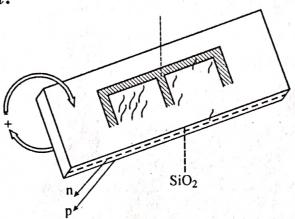
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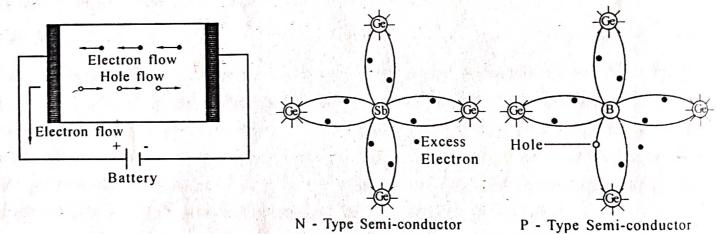
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- 1. Write the uses of varistors?
- 2. Write names of five numbers of semiconducting material and its use.
- 3. What is solar cell?

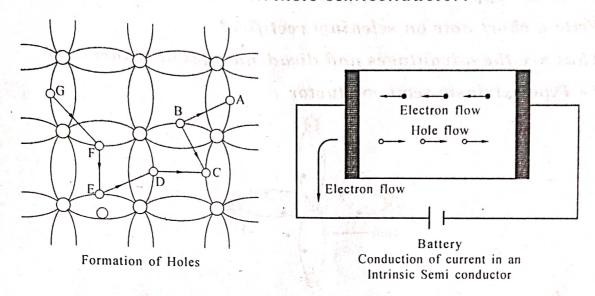


4. What do you mean by instrinsic and extrinsic semiconductors? Explain N-type and P-type materials?

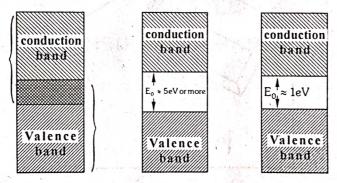


- 5. What is semiconductor?
- 6. What are the uses of varister?
- 7. Write a short note on energy band in solid?
- 8. Write a short note on germanium rectifier?
- 9. Explain function of intrinsic semiconductor?
- 10. Explain classify semiconductors?
- 11. What is thermister?

- 12. Explain the energy band diagram of a conductor?
- 13. Write a short note on silicon rectifier?
- 14. Explain conduction in intrinsic semiconductor?

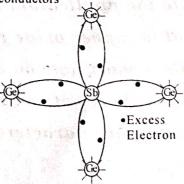


- 15. What is doping?
- 16. What are the uses of transistor?
- 17. Explain the energy band diagram of an insulating material?



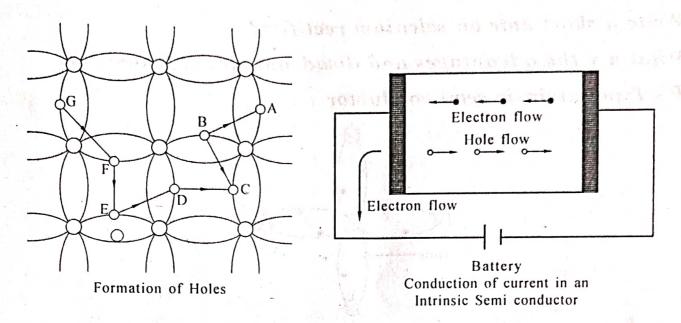
Energy - Band Diagram for the three types of materials (a) Metals (conductors), (b) Insulators, (c) Semi conductors

18. Explain N-type extrinsic conductor?

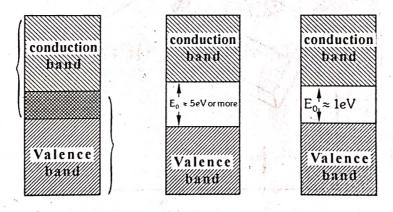


N - Type Semi-conductor

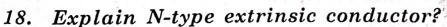
- 12. Explain the energy band diagram of a conductor?
- 13. Write a short note on silicon rectifier?
- 14. Explain conduction in intrinsic semiconductor?

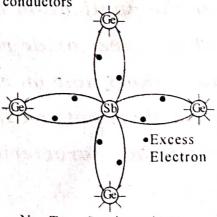


- 15. What is doping?
- 16. What are the uses of transistor?
- 17. Explain the energy band diagram of an insulating material?



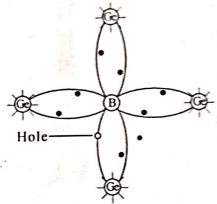
Energy - Band Diagram for the three types of materials (a) Metals (conductors), (b) Insulators, (c) Semi conductors





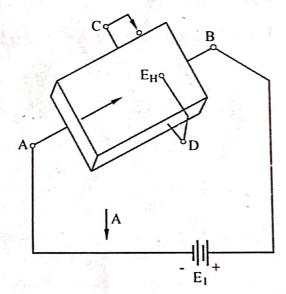
N - Type Semi-conductor

- 19. Write a short note on copper oxide rectifier?
- 20. Name the element used as semi conductor?
- 21. Write two applications of photovoltaic cell?
- 22. Write a short note on selenium rectifier?
- 23. What are the advantages and disadvantages of transistor?
- 24. P Type extrinsic semi conductor



P - Type Semi-conductor

-25. Explain hall effect of generator.



- 26. Write the application of selenium rectifier?
- 27. What is copper oxide rectifier?
- 28. Write a short note on extrinsic semiconductor?
- 29. Write a short note on Photoconductive cell?
- 30. Explain the characteristics and uses of a transistor?

CHAPTER-3 INSULATING MATERIALS

- 1. What is the effect of porosity?
- 2. Classification insulating materials on the basis of physical and chemical structures?
- 3. Glass as insulating material and its use?
- 4. Impregnated paper, feature and application?
- 5. What are the types of insulation resistance?
- 6. What are the properties of SBR?
- 7. Write the importants application of insulating material?
- 8. Explain mica as an insulating material.
- 9. Define permittivity
- 10. Write the uses of glass as an insulator?
- 11. Write the application of asbestos as insulating material.
- 12. Explain the of use of ceramic and write its properties
- 13. What are the visual properties of insulation material?
- 14. What is peizo electric ceramic transducer element?
- 15. What is A class insulating material?
- 16. Write the application of wax as insulating material.
- 17. Classify insulating material
- 18. What is effect of moisture in insulating material?
- 19. Explain the reasons for impregnating electric motor winding?
- 20. Write a short note on insulation resistance?

MORE SUBSTITUTES OF

M. W. Barrier

CHAPTER-4

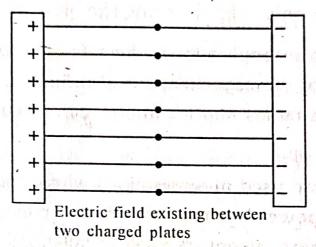
DIELECTRIC MATERIALS

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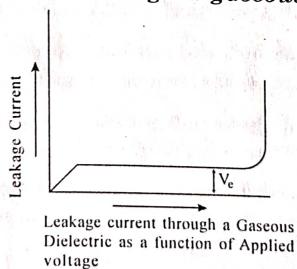
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- 1. Define dielectric loss?
- 2. What is permittivity?
- 3. Write short notes on polarization?



- 4. Define a dielectric material.
- 5. Write a short note on dielectric constant?
- 6. What is dielectric flux density?
- 7. What is polarization?
- 8. Explain dielectric loss?
- 9. What is ionization by collision?
- 10. Explain leakage current through a gaseous dielectric



- 11. What is the effect of temperature on solid dielectric?
- 12. Explain the application of dielectric?

CHAPTER-5 MAGNETIC MATERIALS

- 1. What is the major cause of hum in transformers and chokes?
- 2. Define Hysteresis?

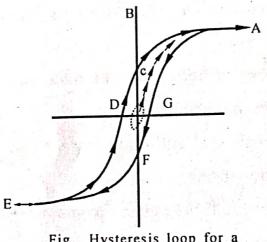
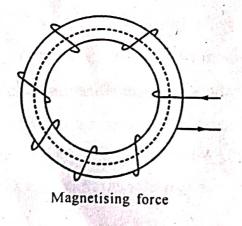
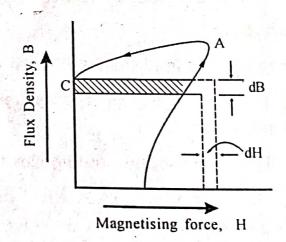


Fig. Hysteresis loop for a Ferromagnetic material

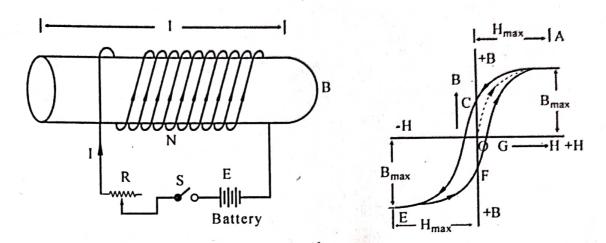
- 3. What is paramagentic material? Give example?
- 4. Write a short notes on soft magnetic materials
- 5. Explain energy expanded in a magnetic cycle.





- 6. What is diamagnetic material? Give example.
- 7. Write a short note on hard magnetic material.
- 8. What is ferromagnetic material? Give example.
- 9. What is spontaneous magnetisation?

- 10. Explain Steinmetz Hystersis law?
- 11. Explain magnetic hysteresis?



- 12. Write the uses of soft magnetic material.
- 13. Write the uses of hard magnetic material.
- 14. Write the uses of soft magnetic material.

CHAPTER-6 MATERIALS FOR SPECIAL PURPOSE

- 1. Write the name of dehydrating material and its use?
- 2. Explain the principle of thermocouple and different types of thermocouple?
- 3. Define Fuse material?
- 4. What is fuse current?
- 5. Write a short note on lead?
- 6. Write a short note on solders?
- 7. What is the function of fuse?
- 8. What are the factors which effect contact performance?
- 9. Explain the function and uses of thermostat?
- 10. What are the advantages of fuse?
- 11. Write a short note on dehydrating material.
- 12. Write a short note on tape.