



## Electrical Machinery (Hardbound)

**Author :** P.S. Bimbhra

**ISBN 13 :** 978-93-89139-15-0

**ISBN 10 :** 93-89139-15-5

**E-ISBN 13 :** 978-93-89139-15-0

**Edition :** First

**Pages :** 1084

**Type of book :** Hardbound

**Year :** 2021

**Language :** English

**Publisher :** Khanna Publishing House

**Regular Price :** Rs 2,995.00

**Sale Price :** Rs 2,396.00

**Categories :** [All books](#), [Electrical, Electronics & Communication Engineering](#), [Hardbound Books](#)

**Condition Type :** New

**Country Origin :** India



**Khanna Publishing House**

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: [contact@khannabooks.com](mailto:contact@khannabooks.com) | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320

---

## Product Description

---

This thoroughly revised and updated edition presents a rigorous and comprehensive treatment of transformers and more common types of rotating electrical machine types. Each chapter begins with rudimentary concepts and is so developed that an average student can easily comprehend it. The salient features of this book are :

In-depth coverage of transformers, dc machines, 3-phase synchronous, and induction machines.

Highlights that electrical machines operate on the same basic principles.

Devotes a chapter on electromechanical-energy conversion principles and another on dc/ac machine windings.

Drive aspects and applications are discussed for each machine type.

Clarity of presentation is enhanced by illustrative figures and examples selected from question-papers of important Universities, IAS, IES, and GATE.

Includes numerous problems, conceptual questions and objective-type questions (with answers) to help the reader master the basic concepts.

This edition includes a chapter on “basic principles of electrical machines.”

All these features contribute towards making this book an ideal text for undergraduate students of degree classes.

Practicing engineers, through self-study, will also find this volume useful to them.

---

## Table of Contents

---

- Chapter 1. Basic Principles of Electrical Machines
- Chapter 2. Transformers
- Chapter 3. Electromechanical Energy Conversion Principles
- Chapter 4. Basic Concepts of Rotating Electrical Machines
- Chapter 5. D.C. Machines
- Chapter 6. Polyphase Synchronous Machines
- Chapter 7. Polyphase Induction Motors
- Chapter 8. Armature windings
- Chapter 9. APPENDIX - A: Magnetic Circuits
- Chapter 10. APPENDIX - B: Three-Phase Circuits
- Chapter 11. APPENDIX - C: Objective Type Questions
- Chapter 12. APPENDIX - D: Short-Answer Type Questions
- Chapter 13. APPENDIX - E: INDEX



---

## Author

---

### **P.S. Bimbhra**

Dr. P.S. Bimbhra retired as a professor of Electrical and Electronics Engineering from T.I.E.T. Patiala. A graduate of Punjab Engineering College, Chandigarh, he received his M.E. (Hons.) and Ph.D. from IIT Roorkee. He is fellow of the Institution of Engineers and a life member of ISTE. His areas of current interests include Electrical Machines, Power Electronics and Electric Drives. </p>

---

