PRINCIPLES OF ELECTRICAL ENGINEERING [ELECTRICAL ENGINEERING MATERIALS WITH FIELD THEORY]

----- * -----By A. B. Shinde

Edition: 1st Edition : 2007ISBN: 81-85594-76-7Size: 170 mm x 240 mmBinding: Paperback with Four Color Jacket CoverPages: 236 + 16

ABOUT THE BOOK

In this text-book the author has compiled the topics of Electricity. Magnetism and Materials as a

one subject, which are the three foundation pillars of Electrical and Communication Engineering.

These are presented with a little different method of approach to ensure the students to grasp

The static electricity is the science of static charge including that of electric induction and the

motional charge is an electric current. Magnetism in fact is an effect of electric current and

electromagnetic induction is the interconsequence of varying electricity and magnetism. Since

as per modern theory of atom, the electricity and magnetism have the origins in the matter

itself. Therefore chapter of Electric Properties of Matter after Static Electricity and chapter

of Magnetic Properties of Matter after Magnetism are introduced. These two chapters thus

give introduction of conducting, insulating, semi-conducting and magnetic materials used in

Electrical Engineering. Therefore, in the book before the chapters of materials, their related

theories are given, and then chapters of materials are dealt. The chapter of Electric Current and

Circuits being a link between electricity and magnetism is introduced as a fourth chapter. The

chapter one of Introduction deals with the systems of units, which is a proper place for it. The book therefore presents a sound and comprehensive account of fundamental principles and

PRINCIPLES OF ELECTRICAL ENGINEERING (LECTRICAL DEDICEMENT INTERACTION) (LECTRICAL DEDICEMENT INTERACTION)

₹ 125.00

1 : INTRODUCTION (SYSTEMS OF UNITS)

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- 11 : SOLID INSULATING MATERIALS
- 12: LIQUID AND GASEOUS INSULATING MATERIALS
- 13: CONDUCTING MATERIALS
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The book now in its 14 Chapters contains:

their application orderly arranged.

the whole subject matter of the book easily.

- * 143 Neatly drawn self-explanatory diagrams
- * 42 Worked Examples
- * 21 Useful Tables
- * 237 Unsolved problems with answers at the end of each chapter
- * 212 Objective Questions.

The book therefore covers adequately the most recent requirements of various important examinations. It is the fervent hope of the author that this book will satisfy the needs of the Engineering students preparing for the B.Tech/B.E. examinations of almost all the Indian Universities, Diploma examinations conducted by various Boards of Technical Education, Certificate courses as well as for the A.M.I.E., U.P.S.C., G.A.T.E. and other similar competitive and professional examinations. It should also be of an immense help to the practising engineers.

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