



# Engineering Physics: With Laboratory Manual

*N.H. Ayachit, P.K. Mittal*

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The present book is designed for the first year engineering students.

**The salient features of the book are:**

- It covers all the topics of the syllabus.
- The different concepts and propositions are developed in terms of simple physical phenomenon supplemented with theoretical derivations in a concise and explanatory manner.
- A set of solved examples are given at the end of each chapter.
- At the end of each chapter, a set of review questions, numerical questions and multiple choice questions have been given.
- In the end of the book, Laboratory Experiments are included. These will guide the students for doing practicals, to learn the principles, rules and laws which are very useful in their future engineering studies.

**Contents:**

## **UNIT ONE: MODERN PHYSICS**

1. Black-body Radiation
2. Photoelectric Effect and Compton Effect
3. Wave Particle Dualism

## **UNIT TWO: QUANTUM MECHANICS**

4. Quantum Mechanics

## **UNIT THREE: ELECTRON CONDUCTIVITY IN METALS**

5. Electron Theory of Metals

## **UNIT FOUR : DIELECTRIC AND MAGNETIC PROPERTIES OF MATERIALS**

6. Dielectric Properties
7. Magnetic Properties

## **UNIT FIVE: LASERS**

8. Lasers and Holography

## **UNIT SIX: OPTICAL FIBERS & SUPERCONDUCTIVITY**

9. Superconductivity
10. Fibre Optics

## **UNIT SEVEN: CRYSTAL STRUCTURE**

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12. Planes in Crystals
13. Planes in Crystals


## **UNIT EIGHT: MATERIAL SCIENCE**


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Laboratory Experiments

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