



## Applied Physics II (with Lab Manual)

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**ISBN 13 :** 978-93-55381-92-7

**ISBN 10 :** 93-55381-92-1

**E-ISBN 13 :** 978-93-55381-92-7

**Edition :** First

**Pages :** 248

**Type of book :** Paperback

**Weight (g) :** 350.00

**Year :** 2023

**Language :** Hindi

**Publisher :** Khanna Publishing House

**Regular Price :** Rs 318.00

**Sale Price :** Rs 254.40

**Categories :** [AICTE Prescribed Textbooks](#), [All books](#), [Hindi Books](#)

**Condition Type :** New

**Country Origin :** India

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## Product Description

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“Applied Physics-II” is a basic science course in the first year of the Diploma program in Engineering & Technology. Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes-based education(OBE). Book covers seven topics- Wave motion, Optics, Electrostatics, Current electricity, Electromagnetism, semiconductor physics and Modern physics. Each topic and its subtopics are written from the perspective of a student’s learning and in accord with the NEP 2020 guidelines. Every unit comprises a set of activities and exercise at the end to assist the student’s learning. Some salient features of the book: 1. Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes. 2. Book Provides relevant interesting facts, QR Code for E-resources and use of ICT and suggested micro projects activities in each unit. 3. Content presented in book in chronological way. 4. Figures, tables and equations are given to improve clarity of the topics. 5. Solved examples are given with systematic steps. 6. MCQ’s, short and long answer questions and unsolved problems of understanding and above levels (Bloom’s Taxonomy) are given for learning reinforcement of students and as per OBE.

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**Foreword, Acknowledgement, Preface, Outcome Based Educations, Course Outcomes, Abbreviations and Symbols, List of Figures, Guidelines for Teachers, Guidelines for Students Chapter 1:** Wave Motion and its applications. **Chapter 2:** Optics. **Chapter 3:** Electrostatics. **Chapter 4:** Current Electricity. **Chapter 5:** Electromagnetism. **Chapter 6:** Semiconductor physics. **Chapter 7:** Modern physics. **Index**

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