



Semiconductor Physics (Revised Syllabus NEP 2020 as per Mumbai University)

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Semiconductor Physics is an ideal textbook for all engineering students to master the fundamental concepts of Semiconductor Physics. This book lays a solid foundation for understanding the principles and mechanisms that underpin many engineering disciplines.

With clear explanations and concise language, this book covers essential topics in Semiconductor Physics, including:

- Covers syllabus as per revised course of Mumbai University, NEP- 2020
- Basics of Semiconductors and Junction diode
- Important Diodes
- Bipolar Junction Transistors and Field Effect Transistors
- Nanotechnology

Includes solved problems for better understanding of the fundamental concepts of Physics

By reading this book, students will gain a deep understanding of the practical applications of physics and be well-prepared to succeed in their engineering education and future careers. The book's comprehensive coverage and clear explanations make it an invaluable resource for students and instructors alike.

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About the Authors

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Dr. Sandhya Sanjay Bharambe is currently working as an Assistant Professor of Applied Physics at SIES Graduate School of Technology, Navi Mumbai. She has 21 years of teaching experience. She did her Ph.D. from the University of Mumbai in the field of Physics (Nanotechnology- Ferrites). She has completed a minor research project at the University of Mumbai, participated in International and National conferences and published papers. She has actively contributed as a member of the syllabus design committee at Mumbai University as per NEP2020.