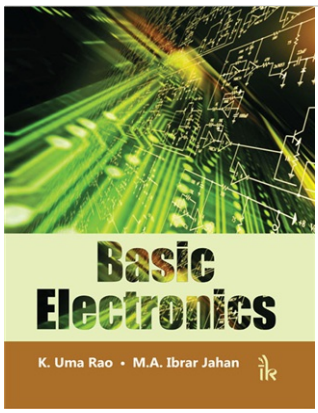
Book Information Sheet



Basic Electronics, 1/e

K Uma Rao & M.A. Ibrar Jahan

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About the Book

This book presents the basic concepts of electronic devices and circuits in a simple manner. A number of design and analytic numerical problems have been included to help the student understand the application of the concepts clearly. The main topics covered in the book include semiconductor diodes and their application in rectifiers and voltage regulators; transistors, their configurations and application in amplifier and oscillator circuits; Operational amplifiers and their applications; number systems and fundamentals of analog communication circuits and basic transducers. The book will be useful for the first year course in Engineering.

Salient Features

- Covers the concepts of the basic devices: diodes, transistors, op-amps, number system, digital circuits, gates, Boolean functions, transducers and communication systems.
- Contains learning aids including learning objectives in each chapter, more than 150 solved examples, end-of-chapter Exercises and abundant diagrams.
- Discusses the 8051 microcontroller and 8085 microprocessor along with their architecture and pin diagrams.

Table of Contents

1. Semiconductor Diode and its Applications
2. Transistors
3. Operational Amplifiers
4. Number Systems
5. Digital Circuits, Microprocessors and Microcontrollers
6. Transducers
7. Communication Systems.

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