



Electronics: Fundamentals and Applications

D. Chattopadhyay

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The book is meant for the students pursuing a beginner's course in electronics. Current syllabi of basic electronics included in physics (honors/major) curriculum of different universities and those offered in various engineering and technical institutions have been consulted in preparing the material contained herein. In 23 chapters, the book deals with the formation of energy bands in solids, electron emission from solid surfaces, properties of semiconductors, metal semiconductor contacts, junction diodes, rectifiers, voltage multipliers, clipping and clamping circuits, bipolar junction transistors, basic voltage and power amplifiers, feedback in amplifiers, regulated power supplies, sinusoidal oscillators, multivibrators, modulation and demodulation, field effect transistors, ics, op amps, active filters, special semiconductor devices such as phototransistor, scr, triac, diac, ujt, impatt diode, gunn diode, pin diode, igbt, etc., digital circuits and systems, vlsi technology and circuits, cro, communication systems, television, radar, lasers, fiber optics and holography. Software packages for circuit simulation, namely, spice have been included in an appendix. Fundamental principles and applications are discussed herein with explanatory diagrams in a clear and concise way. Physical aspects are emphasized, mathematical details are given wherever necessary. Many of the problems, review questions and objective type questions included in the book are taken from recent examination papers.

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