

# Physical Chemistry By P C Rakshit In

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the book is meant for the students pursuing a beginners course in electronics current syllabi of basic electronics included in physics honours curriculum of different universities and those offered in various engineering and technical institutions have been consulted in preparing the material contained herein in 22 chapters the book deals with formation of energy bands in solids electron emission from solid surfaces vacuum tubes properties of semiconductors pn junction diodes rectifiers voltage multipliers clipping and clamping circuits bipolar junction transistors basic voltage and poweramplifiers feedback in amplifiers regulated power supply sinusoidal oscillators multivibrators modulation and demodulation jfet and mosfet ics op amps special semiconductor devices such as phototransistor scr triac diac ujt impatt diode gunn diode pin diode igit digital circuits cathode ray oscilloscope radio communication television radar and laser fundamental principles and applications are discussed herein with explanatory diagrams in a clear concise way physical aspects are emphasized mathematical details are given when necessary many of the problems and review questions included in the book are taken from recent examination papers some objective type questions typically set in different competitive examinations are also given at the end of each chapter salient features small geometry effects and effects of interconnects included in chapter 18 a quick discussion on fibre optic communication system in chapter 22 revised and updated to cope with the current syllabii of some more universities and technical institutions chapters 6 8 16 18 and 22 have been changed with the addition of new material some more university

questions and problems have been included

this book is in two parts for better presentation of the subject it covers analysis and design of a wide range of electronic circuits which will be useful to a whole spectrum of readers from hobbyists to professional engineers the book will be notably useful for the engineering students for diploma as well as degree grades the topics covered are unregulated supplies zener voltage regulators transistorised voltage supplies controlled rectifiers voltage amplifiers power amplifiers and multivibrators in part ii of this book emphasis has been given to the computer aided design of the above circuits it covers network analysis device modeling and study of some of the popular circuits and their computer aided design a clear and precise logistics is developed and presented with functional programmes which should help the readers to formulate their own programme for the oft repeated design problems

computer and communication technology has already changed our way of life and the society in a dramatic manner within the last two decades whereas new technologies have emerged for turning each device into more intelligent and communicable devices the book covers electronics telecommunication computers technology a i cryptography information and network security nano electronics microelectronics process control and automation and renewable energy

the book is meant to be a textbook for the students taking the course on basic electronics prescribed by the u p technical university in nine chapters the book deals with the formation of energy bands in solids properties of semiconductors semiconductor junction diodes and diode circuits bipolar junction transistors operational amplifiers and their applications number systems logic gates and digital circuits digital multimeter

and cathode ray oscilloscope fundamental principles and applications are discussed herein with explanatory diagrams in a clear concise way physical aspects are discussed in detail mathematical derivations are given where necessary many problems objective type and review questions which are typically set in examinations are included in the book at the end of each chapter

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