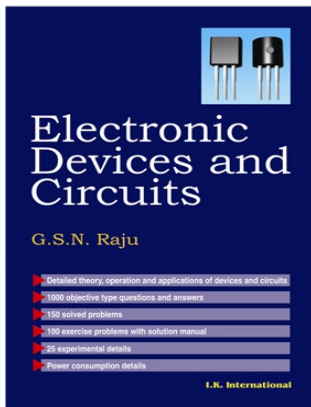


Electronic Devices and Circuits, 1/e

G S N Raju



2008	588 pp	Paperback	ISBN: 9788189866020	Price: 345.00
------	--------	-----------	---------------------	---------------

About the Book

Electronic Devices and Circuits contains the fundamentals of electronic devices and their applications. The book is centred around the basic characteristics, analysis, design and application aspects of conductors, insulators, semi-conductors, resistors, inductors, capacitors, basic network theorems, test and measuring meters, fabrication techniques, diodes, transistors, amplifiers and oscillators.

The fundamentals concepts of the subject are described pointwise for easy readability and grasp. Several solved problems, objective-type questions and multiple-choice question with answers, exercise questions with solution manual and a large number worked out examples, besides 27 experiments conducted for all the engineering and scient students are the highlight of the book. The entire content in the book is provided in a logical, orderly and a self-understandable manner.

Salient Features

- ▶ Detailed theory, operation and application of devices and circuits
- ▶ 1000 objective type question and answers
- ▶ 150 solved problems
- ▶ 100 exercise problems with solution manual
- ▶ 27 experiments
- ▶ Power consumption details

Table of Contents

- ▶ Common Electronic Materials and Properties
- ▶ Passive Components, DC Sources, Circuits Theorems and Basic Meters
- ▶ Electrodynamics and CRO
- ▶ Diode: Characteristics and Applications
- ▶ Rectifiers and DC Power Supplies
- ▶ Transistor Characteristics and Applications
- ▶ Transistors Biasing and Stabilization Techniques
- ▶ Analysis of Transistor Amplifiers Using Hybrid Equivalent Circuits
- ▶ Field Effect Transistors
- ▶ Feedback Amplifiers
- ▶ Power Amplifiers
- ▶ Power Devices
- ▶ Oscillators
- ▶ Operational Amplifiers and Applications
- ▶ Experiments
- ▶ Multiple Choice Questions
- ▶ Index

About the Author

G S N Raju :- Dr. GSN Raju is Professor, Department of Electronics and communication Engineering, Andhra University College of Engineering (Autonomous), Andhra University, Visakhapatnam, India. A Ph.D from Indian Institute of Technology, Kharagpur, he has 30 years of experience in teaching and research at undergraduate, postgraduate and Ph.D levels. His main areas of interest are Electromagnetic Field Theory, Antennas and Wave Propagation, Radar and Microwave Communication, Bio-Instrumentation and EMI/EMC.

A Visiting Professor in the University of Karlsruhe and Paderborn, Germany in 1994, he is also the recipient of the AP State Best Teacher Award (1999), Best researcher Award (1994), IETE Prof. Aiya Memorial National Award for the Best Research in India in Electronics and Communication Engineering (2005) and Dr. Sarvepalli Radha Krishnan award for the Best Academician of the year 2007. He has published over 200 papers in international journals and proceedings of national and international conferences.

Prof. Raju is the Chief Editor of the National Journal of Electromagnetic Compatibility. He has guided 13 Ph.D theses in the fields of Microwave Engineering and Electromagnetics. He is the Dean of Academics and Research Development, Andhra University College of Engineering (Autonomous).