

All-in-One	Electronics
Simplified	

Author :	A.K. Maini
ISBN 13 :	978-93-86173-39-3
ISBN 10 :	93-86173-39-5
E-ISBN 13 :	978-93-86173-39-3
Edition :	First
Pages :	906
Type of book :	Paperback
Weight (g) :	1770.00
Year :	2021
Language :	English
Publisher :	Khanna Publishing House
M.R.P:	Rs 725.00
Categories :	Electrical, Electronics & Communication Engineering, OBJECTIVE TYPE BOOKS
Condition Type :	New
Country Origin :	India

Product Description

The All-in-one Electronics Simplified is comprehensive treatise on the whole gamut of topics in Electronics in Q &A format. The book is primarily intended for undergraduate students of Electronics Engineering and covers six major subjects taught at the undergraduate level students of Electronics Engineering and covers six major subjects taught at the undergraduate level including Electronic Devices and Circuits, Network Analysis , Operational Amplifiers and Linear Integrated Circuits, Digital Electronics, Feedback and Control Systems and Measurements and Instrumentation. Each of the thirty chapters is configured as the Q&A part followed by a large number of Solved Problems. A comprehensive Self-Evaluation Exercise comprising multiple choice questions and other forms of objective type exercises concludes each chapter.



Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002 Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320

Table of Contents

Chapter 1: Resistors and Resistive Networks. Chapter 2: Capacitors and Capacitive Networks.

Chapter 3: Inductors and Transformers.

Chapter 4: Hardware Electronic Components.

Chapter 5: Network Fundamentals Network Graphs - Mesh Current Analysis - Node Voltage

Analysis -RLC Transients - Voltage and Current Sources - Coupled.

Chapter 6: Network Theorems.

Chapter 7: Fourier Analysis of Waveform.

Chapter 8: Two-Port Networks and State Equations.

Chapter 9: Diodes and Transistors.

Chapter 10: Field Effect Transistors.

Chapter 11: UJT's and Thyristors.

Chapter 12: Optoelectronic Devices.

Chapter 13: Amplifiers.

Chapter 14: Oscillators Sinusoidal and Non-sinusoidal.

Chapter 15: Linear Power Supplies.

Chapter 16: Switched Mode Power Supplies.

Chapter 17: Wave Shaping Circuits.

Chapter 18: Operational Amplifiers Fundamental-Types-Characteristic Parameters .

Chapter 19: Operational Amplifiers Application Circuits.

Chapter 20: IC Timers.

Chapter 21: Phase Locked Loops.

Chapter 22: Digital Electronics Fundamental Number Systems and Codes-Binary Arithmetic Boolean Algebra and Minimization Techniques.

Chapter 23: Logic Gates Logic Families and Combinational Logic Circuits.

Chapter 24: Sequential Logic Circuits Flip Flop, Counter and Register.

Chapter 25: D/A and A/D Converters.

Chapter 26: Microprocessors an Memory Devices. **Chapter 27:** Programmable Logic Devices Proms - PALs - Microcontrollers - CPLDs - FPGAs.

Chapter 28: Feedback and Control Systems.

Chapter 29: Electrical Measurements and Instrumentation.

Chapter 30: Sensors and Transducers.

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002 Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320

Authors

Dr. Anil K. Maini served Defence Research and Development Organization (DRDO) for 36 years in different capacities. Before superannuation, he served as Director of Laser Science and Technology Centre (DRDO) from September 2008 to June 2014. His areas of expertise include Optoelectronic simulators and sensors, Laser systems, Electro-optic countermeasures and High voltage electronics, He has authored and co-authored 15 books more then 150 publications in national/international journals/magazines and has 12 patents (four granted, eight pending) to his credit Currently, he is Consultant in Defence Technologies. **Nakul Maini**



Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002 Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320