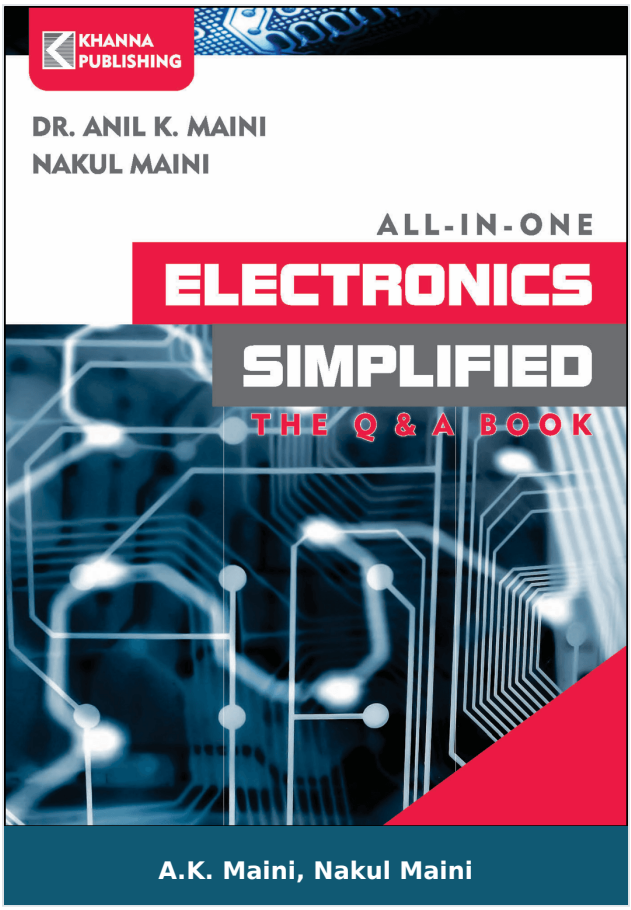



# All-in-One Electronics Simplified

| | |
|---|---|
| **Author :** | A.K. Maini, Nakul Maini |
| **ISBN 13 :** | 978-93-86173-39-3 |
| **ISBN 10 :** | 9386173395 |
| **E-ISBN 13 :** | 978-93-86173-39-3 |
| **Edition :** | First |
| **Pages :** | 906 |
| **Type of book :** | Physical |
| **Year :** | 2021 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 725.00 |
| **Categories :** | Electrical, Electronics & Communication Engineering, Objective Type Books, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

**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

## 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


- Resistors and Resistive Networks
- Capacitors and Capacitive Networks
- Inductors and Transformers
- Hardware Electronic Components
- Network Fundamentals Network Graphs - Mesh Current Analysis - Node Voltage Analysis -RLC Transients - Voltage and Current Sources - Coupled
- Network Theorems
- Fourier Analysis of Waveform
- Two-Port Networks and State Equations
- Diodes and Transistors
- Field Effect Transistors
- UJT's and Thyristors
- Optoelectronic Devices
- Amplifiers
- Oscillators Sinusoidal and Non-sinusoidal
- Linear Power Supplies
- Switched Mode Power Supplies
- Wave Shaping Circuits
- Operational Amplifiers Fundamental-Types-Characteristic Parameters
- Operational Amplifiers Application Circuits
- IC Timers
- Phase Locked Loops


**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

- Digital Electronics Fundamental Number Systems and Codes-Binary Arithmetic Boolean Algebra and Minimisation Techniques
- Logic Gates Logic Families and Combinational Logic Circuits
- Sequential Logic Circuits Flip Flop, Counter and Register
- D/A and A/D Converters
- Microprocessors an Memory Devices
- Programmable Logic Devices Proms - PALs -Microcontrollers - CPLDs - FPGAs
- Feedback and Control Systems
- Electrical Measurements and Instrumentation
- Sensors and Transducers

## Author

**A.K. Maini**

A.K. Maini Dr. Anil K. Maini served Defence Research and Development Organisation (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.

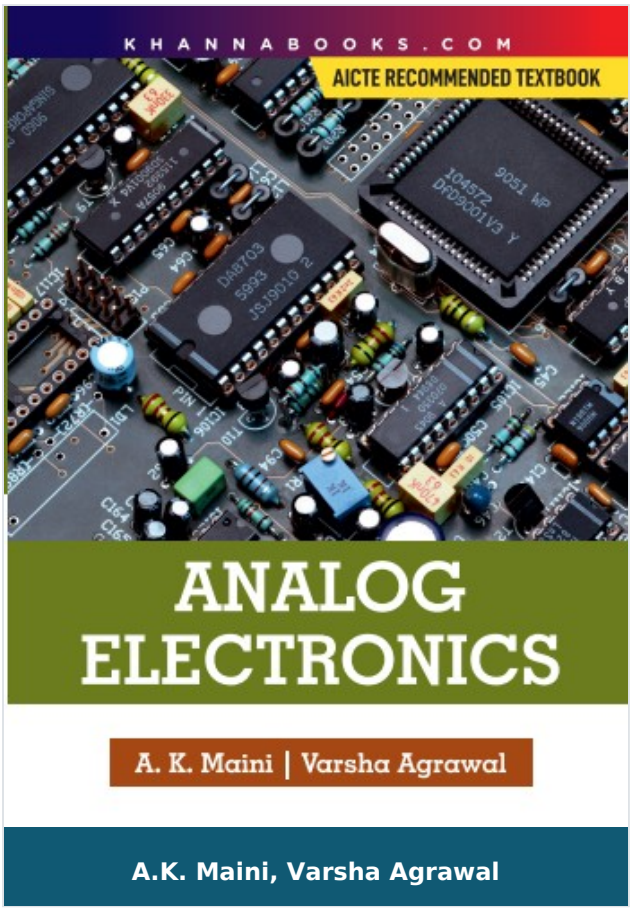
**Nakul Maini**

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




# Analog Electronics

| | |
|---|---|
| **Author :** | A.K. Maini, Varsha Agrawal |
| **ISBN 13 :** | 978-93-86173-58-4 |
| **ISBN 10 :** | 9386173581 |
| **E-ISBN 13 :** | 978-93-86173-58-4 |
| **Edition :** | First |
| **Pages :** | 664 |
| **Type of book :** | Physical |
| **Year :** | 2026 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 750.00 |
| **Categories :** | University Recommended, Electrical, Electronics & Communication Engineering, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

**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

## Product Description

Analog Electronics is a complete and yet concise textbook on Analog Electronics covering Semiconductor Devices and associated circuits. Major topics covered in the book include Semiconductor device fundamental, Small signal and Large signal analysis of amplifiers, Low and High frequency response of amplifiers, Sinusoidal and Non-sinusoidal oscillators, feedback amplifiers, Operational amplifiers and application circuits, D/A and A/D converters and finally Switched capacitor circuits. the contents are strictly as per the syllabus as prescribed by AICTE. the book is replete with Solved problems and Self-evaluation exercises including Multiple choice question with answers.

**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: Semiconductor Diodes-Fundamentals, Types and Circuits
- Chapter-2: Bipolar Junction Transistor
- Chapter-3: Field- Effect Transistors
- Chapter-4: Small Signal Analysis of Amplifiers
- Chapter-5: Multistage Amplifiers
- Chapter-6: Large Signal Amplifiers
- Chapter-7: Feedback Amplifiers
- Chapter-8: Oscillators- Sinusoidal and Non-Sinusoidal
- Chapter-9: Introduction to Operational Amplifiers
- Chapter-10: Opamp Circuits
- Chapter-11: Digital-to-Analog and Analog-to-Digital Converters
- Chapter-12: Switched Capacitor Circuits
- INDEX


## Author

**A.K. Maini**

A.K. Maini Dr. Anil K. Maini served Defence Research and Development Organisation (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.

**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

**Varsha Agrawal**

Varsha Agrawal is a Senior Scientitst with DRDO. She has more than 19 year of R&D experience in Laser Systems, Optronic sensor systems and Embedded electronics. She has authored and co-authored five books and has large number of publications in national and international journals/magazines and has one patent to her credit.

**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