



Fundamentals of Power Electronics

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| Author : | Soumitra Kumar Mandal |
| ISBN 13 : | 978-93-55387-24-0 |
| ISBN 10 : | 93-55387-24-5 |
| E-ISBN 13 : | 978-93-55387-24-0 |
| Edition : | First |
| Pages : | 340 |
| Type of book : | Paperback |
| Year : | 2026 |
| Language : | English |
| Publisher : | Khanna Publishing House |
| M.R.P : | Rs 598.00 |
| Categories : | AICTE Prescribed Textbooks , English Books |
| Condition Type : | New |
| Country Origin : | India |



Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

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Product Description

Fundamentals of Power Electronics The Fundamentals of Power Electronics are well established and nowadays all power electronics devices are used in control of ac and Household applications. It is essential for ECE, Industrial Electronics, EEE and Electrical diploma holders. This book is basic for new learners. This book introduces the concept of power electronics, construction, working principle, V-I characteristics of power semiconductor devices such as power BJT, Power MOSFET, IGBT, Thyristor, SCR, LASCR, SCS, GTO, UJT, PUT, DIAC and TRIAC, SET and Nano-technology, turn-on and turn-off methods of thyristors, different triggering circuits, commutation Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a 'know more' section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.



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- Industrial Control Circuits

CO and PO Attainment Table

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