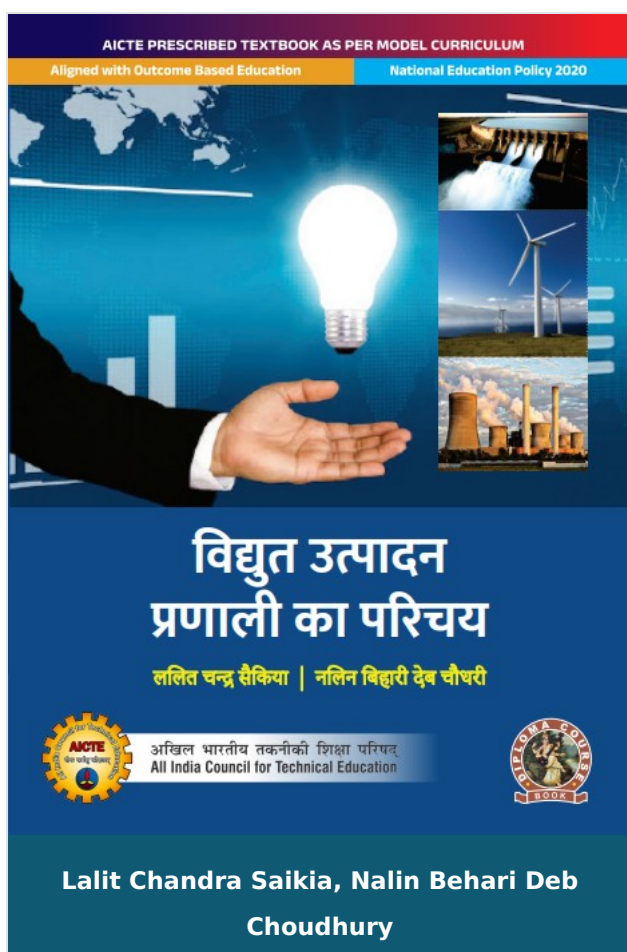




## Introduction to Electric Generation Systems

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|-------------------------|---------------------------------------------------------------------|
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## Product Description

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Introduction to Electric Generation Systems

## Author

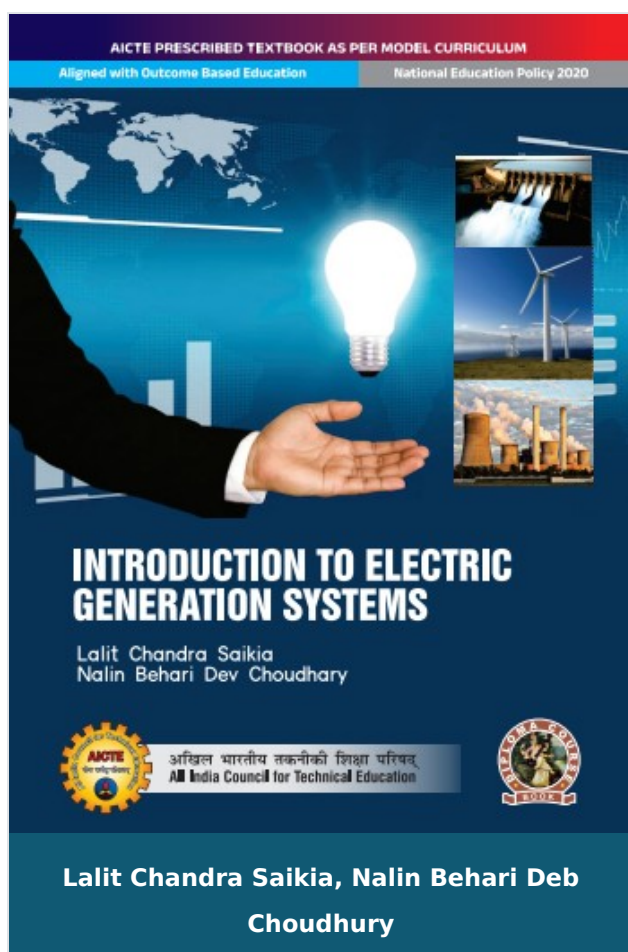
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## Introduction to Electric Generation Systems

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## Product Description

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### Introduction to Electric Generation Systems

This book familiarizes the students with the basics of electrical power generation. This covers all the thermal, hydro, solar, wind, and biomass power plants. The interconnected power systems, power plant economics, and related terms, blackout, and brownout are also included. The basic principles, layout, working, types, and related components of all the power plants, and practical experiments are described clearly. The main content of this book is aligned with the model curriculum of AICTE followed by the concept of outcome-based education as per the National Education Policy (NEP)2020.

#### 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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## Author

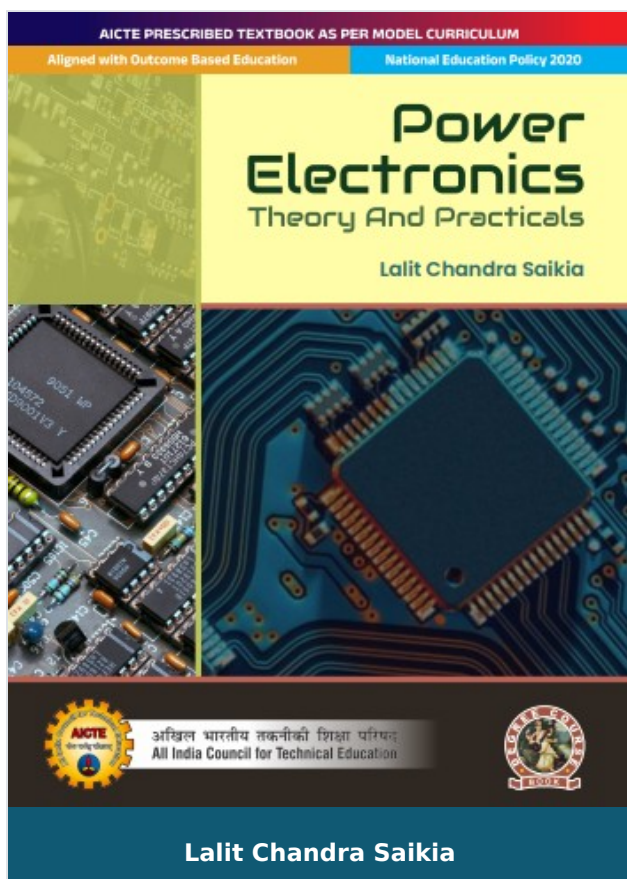
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## Power Electronics: Theory and Practicals

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## Product Description

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### Power Electronics: Theory and Practicals

This book serves as an essential resource for students and professionals in Electrical Engineering. Starting with the basics of semiconductor technology, the book gradually introduces the basics of power electronics covering construction, principle of operations, various characteristics of power transistors and thyristors, SCR turned-on and turned-off methods, and industrial control circuits using power electronics. All are grouped in separate units. The subject matters are presented constructively so that an electrical engineering degree prepares students to work in different sectors at the very forefront of technology. Laboratory experiments on the basics of power electronics as recommended by AICTE are included in the units.

### Salient Features:

- Detailed alignment of content with Course Outcomes, Program Outcomes, and specific Unit Outcomes.
- The contents of each Unit are as per the syllabus of second-year undergraduate.
- The book is enriched with up-to-date information, important facts, and QR codes linking to valuable E-resources.
- A balance of student and teacher-centric materials, presented in an orderly chronological format.
- The book is enriched with numerous solved problems in every unit for proper understanding of the related topics.
- Laboratory experiments on the basics of power electronics are presented at the end of each Unit.
- Extensive use of figures and tables enhances understanding of the topics and the concept.

- The 'Know more' section in each unit encourages exploration beyond the standard syllabus.
- A variety of exercises including short questions, objective-type questions, and numerical problems, are provided at the end of each chapter.

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## Author

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