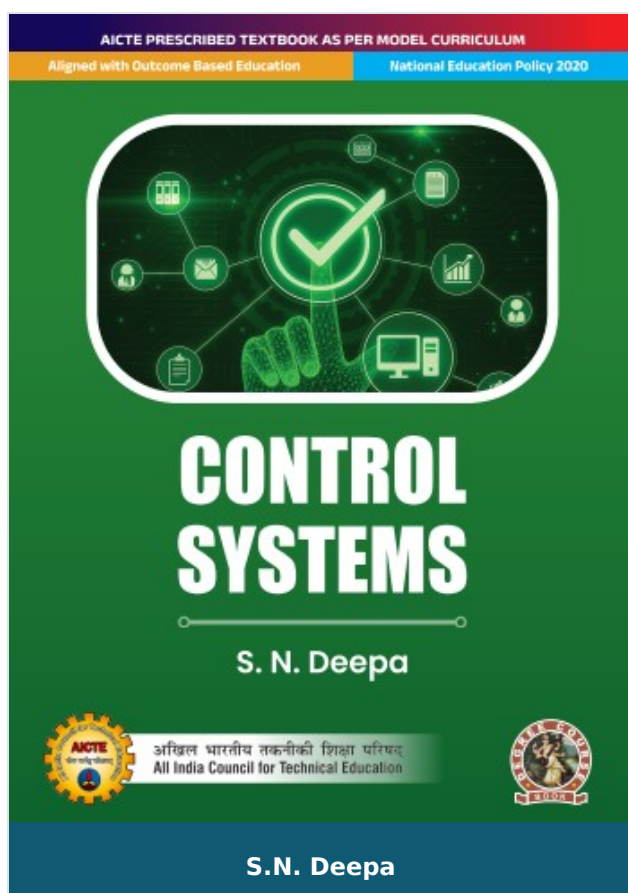




Control Systems

Author :	S.N. Deepa
ISBN 13 :	978-93-55388-72-8
ISBN 10 :	9355388721
E-ISBN 13 :	978-93-55388-72-8
Edition :	First
Pages :	652
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 899.00
Categories :	English Books, AICTE Prescribed Textbooks
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

CONTROL SYSTEMS

CONTROL SYSTEMS is a field that empowers Engineers with Precision and Feedback Intelligence. This textbook offers an in-depth, student-friendly introduction to Control Systems, meticulously designed for fifth-semester undergraduate students of core engineering branches. Drawing from the AICTE's revised model curriculum, the book presents a balanced fusion of theory and practice. Whether you are just beginning your journey into control engineering or preparing for advanced applications in industry and research, this book provides a structured, clear, and application-oriented learning experience. With a strong emphasis on feedback systems, time and frequency domain analyses, and modern state-space methods, it equips students with the analytical approaches needed to design and evaluate control systems in real-world scenarios.

Salient Features:

- The content of the book is aligned with the mapping of Course Outcomes, Program Outcomes and Unit Outcomes.
- At the beginning of each unit, Unit Outcomes and Unit Specifics are introduced to make the student understand what is expected out of him/her after the completion of the unit.
- Student and teacher-centric course materials are included in the book in a balanced and chronological manner.
- Lots of recent information, interesting facts and quotes, inventors and contributors, historical perspective of the concepts and analogies, QR codes for e-resources are provided in the “Know More” section of the book.
- “Know More” section included in the book extends the learning beyond the syllabus of the course.

- Figures, tables and necessary diagrams are included to improve the clarity of the topics in the course.
- An overall view of the unit can be attained by the “Unit Summary” provided at the end of each unit.
- Exercise questions which include - multiple-choice questions, short and long answer type questions are included in each unit for practice of the students and to get well-versed on the topics.
- Several numerical examples are included in the book which are solved in a systematic manner and unsolved problems are provided for the students to practice.

Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- List of Figures
- Introduction to control problem
- Basic characteristics of feedback control systems
- Frequency response analysis
- State variable analysis
- Introduction to optimal control and nonlinear control
- Unit summary
- Exercises
- Know more
- References and suggested readings
- Annexure
- References for further learning
- CO and PO attainment table
- Index

Author

S.N. Deepa

Dr. S. N. Deepa Associate Professor, Electrical Engineering Department, National Institute of Technology Calicut Kozhikode