



# Signals and Systems

By I. Ravi Kumar Kumar

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## Signals and Systems By I. Ravi Kumar Kumar

This textbook provides comprehensive coverage of the principles of signals and systems with a strong emphasis on solving problems. It is suitable for BE/B.Tech students of Electronics and Communication Engineering, Electrical and Electronics Engineering, Electronics and Instrumentation Engineering, Electronics and Control Engineering, Instrumentation and Control Engineering, Computer Science and Engineering, Information and Communication Technology, Telecommunication Engineering and Biomedical Engineering.

The book presents a thorough analysis of both continuous-time and discrete-time signals and systems. It discusses in great detail the mathematical tools such as Fourier series, Fourier transform, Laplace transform and z-transform. The book also explains signal transmission through linear systems and various filters, as well as the concepts of convolution, correlation and sampling. Through numerous worked-out examples, the book provides the students with a solid foundation for understanding this highly mathematical subject.

### KEY FEATURES

- Presents clear and complete mathematical steps for analysis of the concepts.
- Lists important formulae at the end of each chapter for easy recall.
- Offers a large number of solved problems to help the students build a firm conceptual base.
- Gives review questions and objective type questions at the end of each chapter to examine students' assimilation of the material.

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