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Autore	Palani S
Titolo	Basic System Analysis [[electronic resource] /] / by S. Palani
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ISBN	3-031-28280-9
Edizione	[2nd ed. 2023.]
Descrizione fisica	1 online resource (715 pages)
Disciplina	003
Soggetti	Electric power production Electronic circuits Power electronics Electric power distribution Electrical Power Engineering Electronic Circuits and Systems Power Electronics Energy Grids and Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Representation of Signals and Systems -- Fourier Series Analysis of Continuous Time Signals -- Fourier Transform Analysis of Continuous Time Signals -- The Laplace Transform Method for the Analysis of Continuous Time Signals and Systems -- The z-transform Analysis of Discrete Time Signals and Systems -- State Space Modelling and Analysis.
Sommario/riassunto	The book provides a comprehensive introduction to all major topics in Basic System Analysis. The book is designed to serve as a textbook for courses offered to undergraduate students enrolled in electrical, electronics, and communication engineering disciplines. It provides a clear and comprehensive treatment of continuous-time signals and systems with numerical examples; discusses the Fourier series and Fourier transform at length with numerical examples; includes an extensive application of the Laplace transform method of analysis of the linear time-invariant system, etc. The text is augmented with many illustrative examples for easy understanding of the topics covered.

Every chapter contains several numerical problems with answers followed by question-and-answer type assignments. The detailed coverage and pedagogical tools make this an ideal textbook for students and researchers enrolled in electrical engineering and related programs. .
