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Nota di contenuto	Contents --Preface --Preface to the International Edition --List of Figures --List of Tables --List of Abbreviations --1 Signals --1.1 Introduction --1.2 CT Signals --1.3 Manipulation of CT Signals --1.4 DT Signals --1.5 AD and DA Conversion --1.6 The Sampling Theorem --1.7 Quantization Error --1.8 Representing DT Signal --1.9 Elementary DT Signals --1.10 Simple Manipulations of DT Signal --1.11 Energy and Power Signals for CT and DT Signals --1.12 Problems and Solutions --2 Differential Equations --2.1 Introduction --2.2 Determination of the Transient Response 2.3 Determination of the Steady-State Responses --2.4 Problems and Solutions --3 Laplace Transform --3.1 Introduction --3.2 Theorems of Laplace Transform --3.3 Differential Equations and Transfer Functions --3.4 Problems and Solutions --4 System Description --4.1 System --4.2 Properties of Continuous-time System --4.3 Discrete-Time Systems --4.4 Symbol Used to Represent DTS --4.5 Properties of DTS --4.6 Systems'

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Sommario/riassunto

The Book is intended for a course on signals and systems at the senior undergraduate level. The authors consider all the requirements and tools used in analysis and design of discrete time systems for filter design and signal processing.

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