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	Nota di contenuto	An Introduction to Parametric Digital Filters and Oscillators; Contents; Preface; 1 Introduction: Basis of Discrete Signals and Digital Filters; 1.1 Discrete Signals and Systems; 1.2 Discrete Signals; 1.2.1 Time-Domain Representation for Discrete Signals; 1.2.2 Presentation of Discrete Signals by Fourier Transform; 1.2.3 Discrete Fourier Transform; 1.2.4 Laplace and z-Transforms; 1.3 Time-Invariant Discrete Linear Systems; 1.3.1 Difference Equation and Impulse Response; 1.3.2 DLS Representation via Transfer Function; 1.4 Stability and Causality of Discrete Systems
		1.5 Frequency Response of a Discrete Linear System1.5.1 Properties of the Frequency Response of a Discrete Linear System; 1.5.2 Transfer Function versus Frequency Response; 1.6 Case Study: Low-Order Filters; 1.6.1 Purely Recursive Filters; 1.6.2 Effects of Word Length Limitation; 1.6.3 Transversal and Combined Filters; 1.7 Summary; 1.8 Abbreviations; 1.9 Variables; 1.10 References; Part One Linear Discrete

Sommario/riassunto	Since the 1960s Digital Signal Processing (DSP) has been one of the most intensive fields of study in electronics. However, little has been produced specifically on linear non-adaptive time-variant digital filters.
* The first book to be dedicated to Time-Variant Filtering* Provides a complete introduction to the theory and practice of one of the subclasses of time-varying digital systems, parametric digital filters and oscillators* Presents many examples demonstrating the application of the techniquesAn indispensable resource for professional engineers, researchers and PhD