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Nota di contenuto	DESIGN OF ULTRA WIDEBAND POWER TRANSFER NETWORKS; Contents; About the Author; Preface; 1 Circuit Theory for Power Transfer Networks; 1.1 Introduction; 1.2 Ideal Circuit Elements; 1.3 Average Power Dissipation and Effective Voltage and Current; 1.4 Definitions of Voltage and Current Phasors; 1.5 Definitions of Active, Passive and Lossless One-ports; 1.6 Definition of Resistor; 1.7 Definition of Capacitor; 1.8 Definition of Inductor; 1.9 Definition of an Ideal Transformer; 1.10 Coupled Coils; 1.11 Definitions: Laplace and Fourier Transformations of a Time Domain Function f(t) 1.12 Useful Mathematical Properties of Laplace and Fourier Transforms of a Causal Function 1.13 Numerical Evaluation of Hilbert Transform; 1.14 Convolution; 1.15 Signal Energy; 1.16 Definition of Impedance and Admittance; 1.17 Immittance of One-port Networks; 1.18 Definition: 'Positive Real Functions'; 2 Electromagnetic Field Theory for

Sommario/riassunto

Combining analytic theory and modern computer-aided design techniques this volume will enable you to understand and design power transfer networks and amplifiers in next generation radio frequency (RF) and microwave communication systems. A comprehensive theory of circuits constructed with lumped and distributed elements is covered, as are electromagnetic field theory, filter theory, and broadband matching. Along with detailed roadmaps and accessible algorithms, this book provides up-to-date, practical design examples including:filters built with microstrip lines in C and X bands;<li

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