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	Nota di contenuto	SIGNAL INTEGRITY ANDRADIATED EMISSIONOF HIGH-SPEED DIGITAL SYSTEMS; Contents; List of Examples; Foreword; Preface; 1 Introduction to Signal Integrity and Radiated Emission in a Digital System; 1.1 Power and Signal Integrity; 1.1.1 Power Distribution Network; 1.1.2 Signal Distribution Network; 1.1.3 Noise Limitations and Design for Characteristic Impedance; 1.2 Radiated Emission; 1.2.1 Definition of Radiated Emission Sources; 1.2.2 Radiated Emission Standards; 1.2.3 Radiated Emission from a Real System; 1.3 Signaling and Logic Devices; 1.3.1 Overshoot, Undershoot and Plateau 1.3.2 Noise Immunity1.3.3 Timing Parameters; 1.3.4 Eye Diagram; 1.4 Modeling Digital Systems; 1.4.1 Mathematical Tools; 1.4.2 Spice-Like Circuit Simulators; 1.4.3 Full-Wave Numerical Tools; 1.4.4 Professional

Sommario/riassunto	Before putting digital systems for information technology or telecommunication applications on the market, an essential requirement is to perform tests in order to comply with the limits of radiated emission imposed by the standards. This book provides an investigation into signal integrity (SI) and electromagnetic interference (EMI) problems. Topics such as reflections, crosstalk, switching noise and radiated emission (RE) in high-speed digital systems are covered, which are essential for IT and telecoms applications. The highly important topic of modelling is covered which can reduce costs