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Nota di contenuto	Introduction to electrical engineering simulation -- Analysis of electrical circuits with mesh and nodal analysis -- Modelling and analysis of electrical circuits with block diagrams -- Power electronics : electrical circuit oriented simulation -- Designing power electronic control systems -- Instrumentation and control interfaces for energy systems and power electronics -- Modeling electrical machines -- Stand alone and grid connected inverters -- Modeling alternative sources of energy -- Power quality analysis -- From PSIM simulation to hardware implementation in DSP -- Digital processing techniques applied to power electronics.