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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Enabling technologies -- Data converters -- Waveform parameters, multimeters and pulse techniques -- Fundamentals of oscilloscopes -- Recent developments on DSO techniques -- Electronic counters -- Conventional signal sources and arbitrary waveform generators -- Spectrum analysis -- Logic analysers -- An introduction to instrument buses and VLSI testing -- Transmission measurements -- Digital signal processors -- Sensors -- Calibration of instruments.
Sommario/riassunto	A substantial update of his earlier book ""Modern Electronic Test and Measuring Instruments"" (IEE, 1996), the author provides a state-of-the art review of modern families of digital instruments. For each family he covers internal design, use and applications, highlighting their advantages and limitations from a practical application viewpoint. New enabling semiconductor technology including data converters, signal processors and modern sensors offers new capabilities to instrument designers and the book treats new digital instrument families such as DSOs, Arbitrary Function Generators, FFT an