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Edizione	[Eleventh edition, Pearson new international edition.]
Descrizione fisica	1 online resource (ii, 985 pages) : illustrations, charts
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Disciplina	621.381
Soggetti	Digital electronics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Introductory concepts -- Number systems and codes -- Describing logic circuits -- Combinational logic circuits -- Flip-flops and related devices -- Digital arithmetic : operations and circuits -- Counters and registers -- Integrated-circuit logic families -- MSI logic circuits -- Interfacing with the analog world -- Memory devices -- Programmable logic device architecture -- Digital system projects using HDL.
Sommario/riassunto	For all courses in digital electronics, from introductory through advanced. Like previous editions, this text will be used widely in technology classes ranging from high schools and two-year programs to four-year engineering, engineering technology, and computer science programs. Digital Systems, 11/E presents a comprehensive and modern approach to digital electronics, plus thorough preparation for advanced study of digital systems and computer and microcontroller hardware. It first introduces the basic building blocks of digital systems, and the easy AHDL hardware description language. Then, step by step, it covers increasingly challenging topics, including a detailed introduction to VHDL. For each topic, clear explanations of purpose and fundamentals are provided, followed by technical description methods such as truth tables, algebraic expressions, timing diagrams, and logic symbols. This edition adds more focus on megafunctions; a complete systems project management case study; updated memory coverage; more worked examples and figures; new terminology, and much more.

