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Nota di contenuto	The Modern Digital Design Flow -- VHDL Constructs -- Modeling Concurrent Functionality in VHDL -- Structural Design & Hierarchy -- Modeling Sequential Functionality -- Packages -- Test Benches -- Modeling Sequential Storage & Registers -- Modeling Finite State Machines -- Modeling Counters -- Modeling Memory -- Computer System Design -- Appendix A: List of Worked Examples -- .
Sommario/riassunto	This textbook provides a starter's guide to VHDL. This book can be used in conjunction with a one-semester course in Digital Systems Design or on its own for designers who only need an introduction to the language. This book is designed to provide a bottoms-up approach to learning the VHDL language. This design supports a course in which foundational knowledge is covered before moving into advanced topics. However, this design also supports use as a reference manual. The author has designed the presentation with learning goals and assessment at its core. Each section addresses a specific learning outcome that the student should be able to "do" after its completion. The concept checks and exercise problems provide a rich set of assessment tools to measure student performance on each outcome. A

comprehensive coverage of the basic capability of VHDL; Emphasizes examples from which students can learn: contains a solved example for nearly every section in the book; Includes more than 400 exercise problems, as well as concept check questions for each section, tied directly to specific learning outcomes.