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Signals; 8.1 Basic Resolved Signals; 8.2 Resolved Signals, Ports, and Parameters; Exercises; Chapter 9. Predefined and Standard Packages; 9.1 The Predefined Packages standard and env; 9.2 IEEE Standard Packages; Exercises; Chapter 10 Case Study: A Pipelined Multiplier Accumulator; 10.1 Algorithm Outline; 10.2 A Behavioral Model; 10.3 A Register-Transfer-Level Model; Exercises; Chapter 11. Aliases; 11.1 Aliases for Data Objects; 11.2 Aliases for Non-Data Items Exercises Chapter 12. Generics; 12.1 Generic Constants; 12.2 Generic Types; 12.3 Generic Lists in Packages; 12.4 Generic Lists in Subprograms; 12.5 Generic Subprograms; 12.6 Generic Packages; Exercises; Chapter 13. Components and Configurations; 13.1 Components; 13.2 Configuring Component Instances; 13.3 Configuration Specifications; Exercises; Chapter 14. Generate Statements; 14.1 Generating Iterative Structures; 14.2 Conditionally Generating Structures; 14.3 Configuration of Generate Statements; Exercises; Chapter 15. Access Types; 15.1 Access Types; 15.2 Linked Data Structures 15.3 An Ordered-Dictionary ADT Using Access Types Exercises Chapter 16. Files and Input/Output; 16.1 Files; 16.2 The Package Textio; Exercises; Chapter 17. Case Study: A Package for Memories; 17.1 The Memories Package; 17.2 Using the Memories Package; Exercises; Chapter 18. Test Bench and Verification Features; 18.1 External Names; 18.2 Force and Release Assignments; 18.3 Embedded PSL in VHDL; Exercises; Chapter 19. Shared Variables and Protected Types; 19.1 Shared Variables and Mutual Exclusion; 19.2 Uninstantiated Methods in Protected Types; Exercises; Chapter 20. Attributes and Groups 20.1 Predefined Attributes

Sommario/riassunto

VHDL, the IEEE standard hardware description language for describing digital electronic systems, has recently been revised. This book has become a standard in the industry for learning the features of VHDL and using it to verify hardware designs. This third edition is the first comprehensive book on the market to address the new features of VHDL-2008.* First comprehensive book on VHDL to incorporate all new features of VHDL-2008, the latest release of the VHDL standard...helps readers get up to speed quickly with new features of the new standard.

* Presents a structured guide to t
