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## Printed Circuit Board Designer's Reference; Basics

By Robertson, Chris

Prentice Hall, 2003. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface. Designer's Checklist. 1. Introduction to a Printed Circuit Board. What Is a PCB? What a PCB Is Made Of. A Thumbnail Sketch of the Design Process. Summary. 2. Design for Manufacturing. About Fabrication Notes. Technologies. Defining Fabrication Limits. The Fabrication Drawing. The Fabrication Process and Fabrication Notes. Summary. 3. Design for Assembly. Soldering a Thru-Hole Component. Quality Solder Joints. Determining the Annular Ring for Assembly. Component Spacing. Component Placement. Manual Assembly vs. Auto Assembly. Single-Sided Assembly vs. Double-Sided Assembly. Manual Assembly. Auto Assembly. Summary. 4. Schematics and the Netlist. Schematic Entry. Understanding Electricity. Software Terminology. Understanding Components. Schematic Standards. Schematic Design Checklist. Schematic Styles. Sheets and Strategies. Connectors and Sheet Connectors. Summary. 5. Designing a PCB. Initial Design Determination. Getting Started Using Tools of the Trade. Utilities and Accessories. Documenting Standards and Materials. Gathering and Defining Preliminary Information. Defining Constraints and Requirements. Determining the Material Type to Use. Designing the Board. Specifying the Manufacturing Do's and Don'ts. Templates. Summary. 6. Libraries, Components, and Data Sheets. Understanding Components. Component Consistency. Component Symbol Types. Library Naming Convention. Manufacturer-Generic vs. Manufacturer-Specific Components.

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