



# Physical Design Essentials: An ASIC Design Implementation Perspective

*Khosrow Golshan*

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Arranged in a format that follows the industry-common ASIC physical design flow, Physical Design Essentials begins with general concepts of an ASIC library, then examines floorplanning, placement, routing, verification, and finally, testing.

Among the topics covered are Basic standard cell design, transistor-sizing, and layout styles; Linear, non-linear, and polynomial characterization; Physical design constraints and floorplanning styles; Algorithms used for placement; Clock Tree Synthesis; Parasitic extraction; Electronic Testing, and many more.

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