Digital Integrated Circuit Design

Top-down approach to practical, tool-independent, digital circuit design, reflecting how circuits are designed.This practical, tool-independent guide to designing digital circuits takes a unique, top-down approach, reflecting the nature of the design process in industry. Starting with architecture design, the book comprehensively explains the why and how of digital circuit design, using the physics designers need to know, and no more. Covering system and component aspects, design verification, VHDL modeling, signal integrity, clocking and more, the scope of the book is uniquely comprehensive. With a focus on CMOS technology, numerous examples - VHDL and Verilog code, architectural concepts, and failure reports - practical guidelines, and design checklists, this engaging textbook for senior undergraduate and graduate courses on digital ICs will prepare students for the realities of real-world circuit design. Practitioners will also find the book valuable for its insights and its practical approach. Instructor only solutions and lecture slides are available at: cambridge.org/Kaeslin. EAN/ISBN : 9780511451256 Publisher(s): Cambridge University Press Format: ePub/PDF Author(s): Kaeslin, Hubert

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