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Titolo	The Art of Timing Closure : Advanced ASIC Design Implementation / / by Khosrow Golshan
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-49636-8
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XIX, 204 p. 46 illus.)
Disciplina	621.3815
Soggetti	Electronic circuits Microprocessors Electronics Microelectronics Circuits and Systems Processor Architectures Electronics and Microelectronics, Instrumentation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Chapter 1. Introduction -- Chapter 2. Design Implementation Data Structures and Settings -- Chapter 3. Design Constraints Development -- Chapter 4. Multiple Modes and Multiple Corners Development -- Chapter 5. Concurrent Floor Planning and Placement -- Chapter 6. Placement and Timing Analysis -- Chapter 7. Clock Tree Synthesis and Timing Analysis -- Chapter 8. Detail Route and Timing, Power Analysis -- Chapter 9. Final Route and Timing Closure in all Modes and Corners -- Chapter 10. Functional and Physical Verification.
Sommario/riassunto	The Art of Timing Closure is written using a hands-on approach to describe advanced concepts and techniques using Multi-Mode Multi-Corner (MMMC) for an advanced ASIC design implementation. It focuses on the physical design, Static Timing Analysis (STA), formal and physical verification. The scripts in this book are based on Cadence® Encounter System™. However, if the reader uses a different EDA tool, that tool’s commands are similar to those shown in this book. The topics covered are as follows: Data Structures Multi-Mode Multi-Corner

Analysis Design Constraints Floorplan and Timing Placement and Timing Clock Tree Synthesis Final Route and Timing Design Signoff Rather than go into great technical depth, the author emphasizes short, clear descriptions which are implemented by references to authoritative manuscripts. It is the goal of this book to capture the essence of physical design and timing analysis at each stage of the physical design, and to show the reader that physical design and timing analysis engineering should be viewed as a single area of expertise. This book is intended for anyone who is involved in ASIC design implementation -- starting from physical design to final design signoff. Target audiences for this book are practicing ASIC design implementation engineers and students undertaking advanced courses in ASIC design. Provides readers with a hands-on, step-by-step approach to solving physical design and timing closure problems faced in designing for today’s advanced technology nodes; Helps ASIC designers to be conversant with all aspects of ASIC design implementation stages including advance node device processes and libraries, place-and-route and verification; Enables improvement of so called “RTL-to-GDS” cycle time, by incorporating Multiple Mode Multiple Corner (MMMC) timing closure techniques in every step of physical design. .

2. Record Nr. UNINA9910134561903321

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Pubbl/distr/stampa	Edinburgh, Scotland : , : European Bioethical Research Highland Park, Ill. : , : Bioethics Press South Yorkshire, UK : , : Equinox Publishing Ltd
ISSN	2043-0469
Descrizione fisica	1 online resource
Disciplina	174
Soggetti	Human genetics - Moral and ethical aspects Human genetics Bioethics Reproduction Genetics Genetique humaine - Aspect moral Genetique humaine Bioethique Periodical periodicals. Periodicals. Periodiques.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed Vol. 1, no. 1-v. 3, no. 2 reprinted in 2000 under this title.