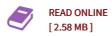# Boolean Circuit Rewiring: Bridging Logical and Physical Designs (Hardback)

By Tak-Kei Lam, Xing Wei, Wai-Chung Tang

John Wiley Sons Inc, United States, 2016. Hardback. Condition: New. 1. Auflage. Language: English . Brand New Book. Demonstrates techniques which will allow rewiring rates of over 95 , enabling adoption of deep sub-micron chips for industrial applications Logic synthesis is an essential part of the modern digital IC design process in semi-conductor industry. This book discusses a logic synthesis technique called rewiring and its latest technical advancement in term of rewirability. Rewiring technique has surfaced in academic research since 1993 and there is currently no book available on the market which systematically and comprehensively discusses this rewiring technology. The authors cover logic transformation techniques with concentration on rewiring. For many decades, the effect of wiring on logic structures has been ignored due to an ideal view of wires and their negligible role in the circuit performance. However in today s semiconductor technology wiring is the major player in circuit performance degeneration and logic synthesis engines can be improved to deal with this through wire-based transformations. This book introduces the automatic test pattern generation (ATPG)-based rewiring techniques, which are recently active in the realm of logic synthesis/verification of VLSI/SOC designs. * Unique comprehensive coverage of semiconductor rewiring techniques written by...

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