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Titolo	Understanding Logic Locking / / by Kimia Zamiri Azar, Hadi Mardani Kamali, Farimah Farahmandi, Mark Tehranipoor
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Altri autori (Persone)	Mardani KamaliHadi FarahmandiFarimah TehranipoorMohammad H. <1974->
Disciplina	005.8
Soggetti	Electronic circuit design Embedded computer systems Electronic circuits Electronics Design and Verification Embedded Systems Electronic Circuits and Systems
Lingua di pubblicazione	Inglese
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Nota di contenuto	Basics of VLSI Design -- Basics of VLSI Testing and Debug -- IP Protection in VLSI Design: A Historical View -- Making a Case for Logic Locking -- Fundamentals of Logic Locking -- Infrastructure around Logic Locking -- Impact of Satisfiability Solvers on Logic Locking -- Post-Satisfiability Era: Countermeasures and Threats -- Design-for-Testability and its Impact on Logic Locking -- Emergence of Cutting-edge Technologies on Logic Locking -- Logic Locking in Future IC Supply Chain Environments -- Multilayer Approach to Logic Locking -- A Step-by-Step Guide for Protecting/Locking Your IP -- A Step-by-Step Guide for Security Evaluation of Protected/Locked IP.
Sommario/riassunto	This book demonstrates the breadth and depth of IP protection through logic locking, considering both attacker/adversary and defender/designer perspectives. The authors draw a semi-chronological picture of the evolution of logic locking during the last decade, gathering and describing all the DO's and DON'Ts in this

approach. They describe simple-to-follow scenarios and guide readers to navigate/identify threat models and design/evaluation flow for further studies. Readers will gain a comprehensive understanding of all fundamentals of logic locking. Covers modern VLSI design, testability and debug, and hardware security threats at different levels of abstraction; Provides a comprehensive overview of logic locking techniques and their applications to hardware security; Covers logic locking from implementation to evaluation, different assumptions, models and abstraction layers.
