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Nota di contenuto	1 Introduction and Overview 2 Understanding of Process-Induced Random Variation 3 Various Variation-Robust CMOS Device Designs 4 Applications to Static Random Access Memory (SRAM) 5 Conclusion.
Sommario/riassunto	This book provides a comprehensive overview of contemporary issues in complementary metal-oxide semiconductor (CMOS) device design, describing how to overcome process-induced random variations such as line-edge-roughness, random-dopant-fluctuation, and work- function variation, and the applications of novel CMOS devices to cache memory (or Static Random Access Memory, SRAM). The author places emphasis on the physical understanding of process-induced random

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random/intrinsic variations and the technical solutions to address these issues plays a key role in new CMOS technology development. This book aims to provide the reader with a deep understanding of the major random variation sources, and the characterization of each random variation source. Furthermore, the book presents various CMOS device designs to surmount the random variation in future CMOS technology, emphasizing the applications to SRAM.