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flow: from Register-Transfer Level (RTL) all the way to the silicon die. In particular, this book describes: (1) techniques for bug trace minimization that simplify debugging; (2) an RTL error diagnosis method that identifies the root cause of errors directly; (3) a counterexample-guided error-repair framework to

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followed by examples in specific technologies, circuits, and chips. Uniquely both the semiconductor chip integration issues and floorplanning of ESD networks are covered from a 'top-down' design approach. Look inside for extensive coverage on: integration of cores, power bussing, and signal pins in DRAM,

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SRAM, CMOS image processing chips, microprocessors, analog products, RF components and how the integration influences ESD design and integration architecturing of mixed voltage, mixed signal, to RF design for ESD analysis floorplanning for peripheral and core I/O designs, and the implications on ESD and

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latchup guard ring integration for both a
'bottom-up' and 'top-down' methodology
addressing I/O guard rings, ESD guard
rings, I/O to I/O, and I/O to core
classification of ESD power clamps and
ESD signal pin circuitry, and how to make
the correct choice for a given
semiconductor chip examples of ESD

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design for the state-of-the-art technologies discussed, including CMOS, BiCMOS, silicon on insulator (SOI), bipolar technology, high voltage CMOS (HVCMOS), RF CMOS, and smart power practical methods for the understanding of ESD circuit power distribution, ground rule development, internal bus

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