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## ESD: Circuits and Devices (Hardback)

By Steven H. Voldman

John Wiley Sons Inc, United States, 2015. Hardback. Condition: New. 2nd Revised edition. Language: English . Brand New Book. ESD: Circuits and Devices 2nd Edition provides a clear picture of layout and design of digital, analog, radio frequency (RF) and power applications for protection from electrostatic discharge (ESD), electrical overstress (EOS), and latchup phenomena from a generalist perspective and design synthesis practices providing optimum solutions in advanced technologies. New features in the 2nd edition: \* Expanded treatment of ESD and analog design of passive devices of resistors, capacitors, inductors, and active devices of diodes, bipolar junction transistors, MOSFETs, and FINFETs. \* Increased focus on ESD power clamps for power rails for CMOS, Bipolar, and BiCMOS. \* Co-synthesizing of semiconductor chip architecture and floor planning with ESD design practices for analog, and mixed signal applications \* Illustrates the influence of analog design practices on ESD design circuitry, from integration, synthesis and layout, to symmetry, matching, inter-digitation, and common centroid techniques. \* Increased emphasis on system-level testing conforming to IEC 61000-4-2 and IEC 61000-4-5. \* Improved coverage of low-capacitance ESD, scaling of devices and oxide scaling challenges. ESD: Circuits and Devices 2nd Edition is an essential reference to ESD, circuit semiconductor engineers...



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