

ESD Basics: from Semiconductor Manufacturing to Product Use (Hardback)

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Reviews

It is great and fantastic. I actually have read and so i am certain that i am going to going to go through once again yet again in the future. I realized this ebook from my dad and i encouraged this book to find out. (Dr. Kayden Gerlach)

ESD BASICS: FROM SEMICONDUCTOR MANUFACTURING TO PRODUCT USE (HARDBACK)



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John Wiley and Sons Ltd, United States, 2012. Hardback. Book Condition: New. 2nd ed.. 250 x 174 mm. Language: English . Brand New Book. Electrostatic discharge (ESD) continues to impact semiconductor manufacturing, semiconductor components and systems, as technologies scale from micro- to nano electronics. This book introduces the fundamentals of ESD, electrical overstress (EOS), electromagnetic interference (EMI), electromagnetic compatibility (EMC), and latchup, as well as provides a coherent overview of the semiconductor manufacturing environment and the final system assembly. It provides an illuminating look into the integration of ESD protection networks followed by examples in specific technologies, circuits, and chips. The text is unique in covering semiconductor chip manufacturing issues, ESD semiconductor chip design, and system problems confronted today as well as the future of ESD phenomena and nano-technology. Look inside for extensive coverage on: * The fundamentals of electrostatics, triboelectric charging, and how they relate to present day manufacturing environments of micro-electronics to nano-technology * Semiconductor manufacturing handling and auditing processing to avoid ESD failures * ESD, EOS, EMI, EMC, and latchup semiconductor component and system level testing to demonstrate product resilience from human body model (HBM), transmission line pulse (TLP), charged device model (CDM), human metal model (HMM), cable discharge events (CDE), to system level IEC 61000-4-2 tests * ESD on-chip design and process manufacturing practices and solutions to improve ESD semiconductor chip solutions, also practical off-chip ESD protection and system level solutions to provide more robust systems * System level concerns in servers, laptops, disk drives, cell phones, digital cameras, hand held devices, automobiles, and space applications * Examples of ESD design for state-of-the-art technologies, including CMOS, BiCMOS, SOI, bipolar technology, high voltage CMOS (HVCMOS), RF CMOS, smart power, magnetic recording technology, micro-machines (MEMs) to nanostructures ESD Basics: From Semiconductor Manufacturing to Product Use complements the author...

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