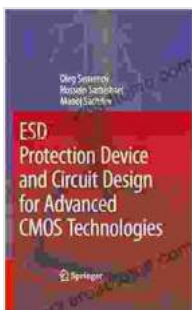
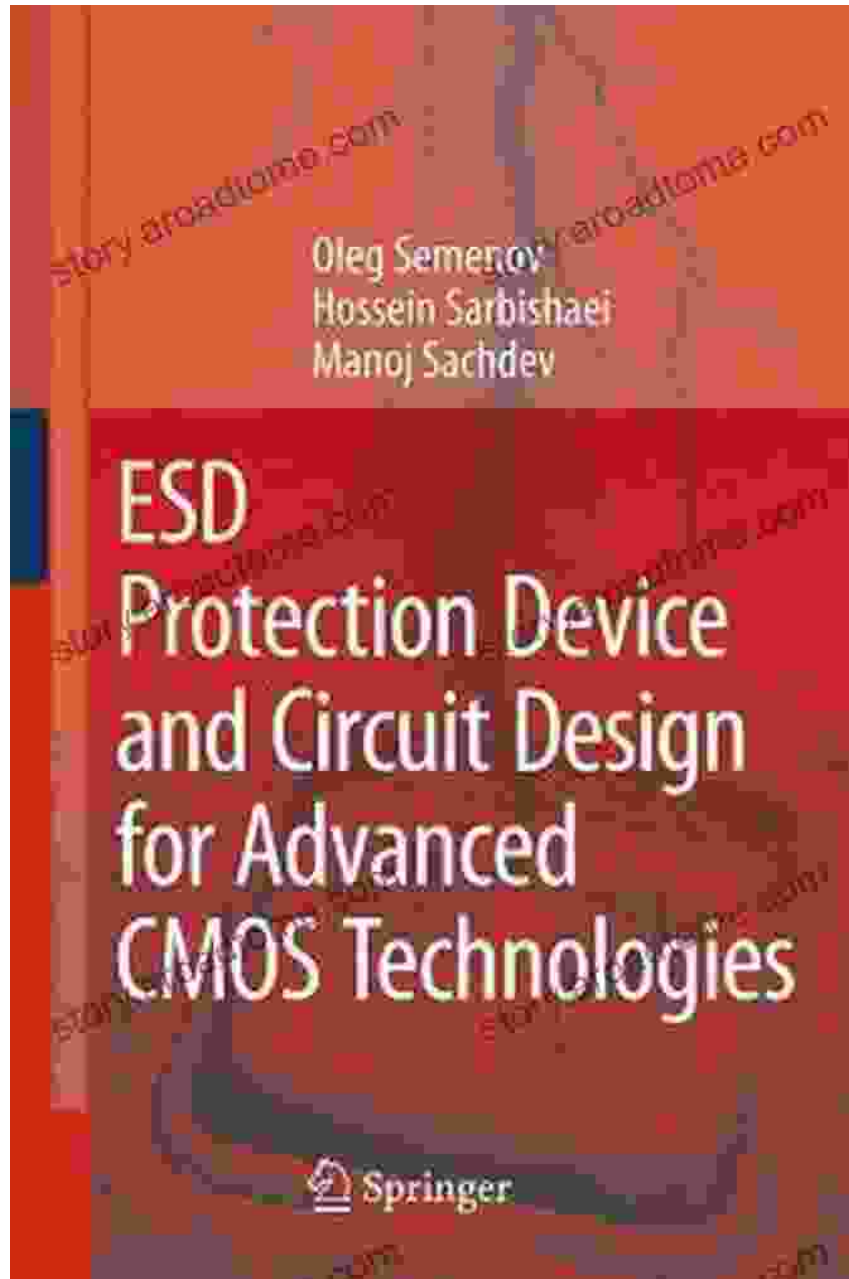


# **ESD Protection Device and Circuit Design for Advanced CMOS Technologies: A Comprehensive Guide**

Electrostatic discharge (ESD) protection is a critical aspect of integrated circuit (IC) design, ensuring the safe operation of electronic devices against electrostatic discharge events. In recent years, the scaling of CMOS technologies has made ICs more susceptible to ESD damage, necessitating improved protection strategies.



## ESD Protection Device and Circuit Design for Advanced CMOS Technologies by Oleg Semenov

★★★★★ 5 out of 5

Language : English

File size : 3698 KB

Text-to-Speech : Enabled

Print length : 246 pages



## Book Overview

"ESD Protection Device and Circuit Design for Advanced CMOS Technologies" is a comprehensive guide to the design and implementation of ESD protection devices and circuits in advanced CMOS technologies.

Written by a team of leading experts in the field, this book provides a thorough understanding of:

- \* ESD physics and models
- \* ESD protection device fundamentals
- \* Advanced ESD protection devices and circuits
- \* System-level ESD protection strategies
- \* Testing and characterization of ESD protection devices and circuits

## Key Features

- \* In-depth coverage of ESD physics and models, providing a strong theoretical foundation for ESD protection design
- \* Comprehensive analysis of advanced ESD protection devices and circuits, including lateral and vertical devices, power clamps, and I/O clamps
- \* Detailed discussion of system-level ESD protection strategies, considering board-level and package-level protection
- \* Practical guidance on testing and characterization of ESD protection devices and circuits, ensuring reliable device performance

## Target Audience

This book is an essential resource for:

\* IC designers \* Circuit designers \* ESD protection engineers \* Reliability engineers \* Semiconductor device physicists

## Benefits

By reading this book, you will gain:

\* A comprehensive understanding of ESD protection principles and practices \* The ability to design and implement robust ESD protection devices and circuits \* Insight into the latest advances in ESD protection technology \* Improved reliability and performance of ESD-sensitive electronic devices

"ESD Protection Device and Circuit Design for Advanced CMOS Technologies" is an invaluable resource for anyone involved in the design and implementation of ESD protection in advanced CMOS technologies. With its comprehensive coverage, expert insights, and practical guidance, this book will empower you to develop ESD-resistant ICs and ensure the reliability of your electronic systems.

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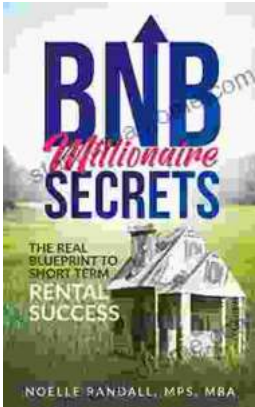
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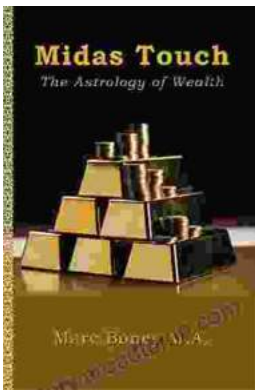
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