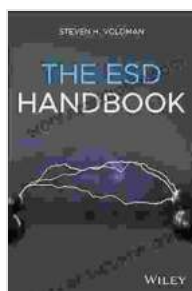


# The ESD Handbook: Your Comprehensive Guide to Electrostatic Discharge Protection

Electrostatic discharge (ESD) is a major threat to electronic devices and systems. Every year, ESD causes billions of dollars in losses due to damaged components, malfunctioning equipment, and even fires. The ESD Handbook, written by Steven Voldman, is your comprehensive guide to protecting yourself and your equipment from the damaging effects of ESD.

## What is ESD?

ESD is the sudden flow of electrical charge between two objects with different electrical potentials. This can happen when two objects come into contact with each other, or when one object is charged and the other is grounded. ESD can range from a minor annoyance, like a shock from a doorknob, to a major disaster, like a fire or explosion.



## The ESD Handbook by Steven H. Voldman

★★★★★ 5 out of 5

Language	: English
File size	: 96855 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 874 pages
Lending	: Enabled



## The Effects of ESD on Electronics

ESD can damage electronic devices in a number of ways. The most common type of damage is dielectric breakdown, which occurs when the electrical field across a dielectric material exceeds the material's dielectric strength. This can cause the dielectric material to break down, allowing current to flow between the conductors that it separates. ESD can also damage electronic devices by causing:

- Gate oxide breakdown
- Junction burnout
- Latchup
- Parametric shifts
- Soft errors

## **ESD Protection**

The best way to protect yourself and your equipment from ESD is to implement a comprehensive ESD control program. This program should include:

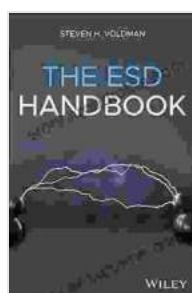
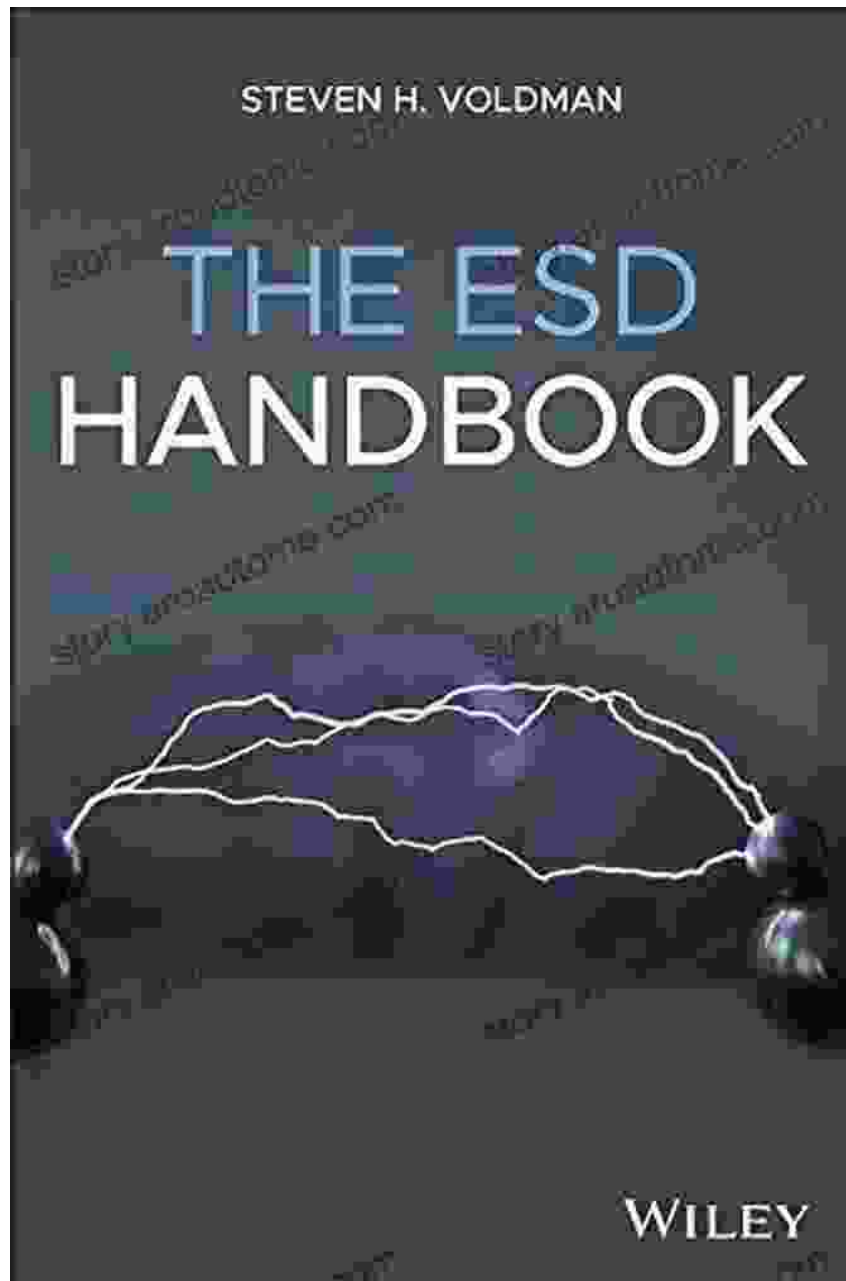
- ESD training for all personnel
- ESD-safe work areas
- ESD-safe materials
- ESD-safe grounding
- ESD-safe packaging
- ESD-safe handling procedures

## **The ESD Handbook**

The ESD Handbook is your comprehensive guide to ESD protection. This must-have reference provides you with everything you need to know about ESD protection, from the basics of electrostatic theory to the latest advances in ESD control materials and techniques. The ESD Handbook is an essential resource for anyone who works with electronic devices or systems.

### **Free Download Your Copy Today**

The ESD Handbook is available now. Free Download your copy today and start protecting yourself and your equipment from the damaging effects of ESD.



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