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electrostatic discharge (ESD) as it affects semiconductors, Voldman introduces the phenomenon to non-specialist scientists and engineers.

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Description. Electrostatic discharge, or ESD,

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is the rapid and spontaneous transfer of electrostatic charge that occurs between two bodies at different electrostatic potentials.

ESD is frequently encountered in everyday life: walking across a carpet then touching a metal doorknob, for example. It ' s much more dangerous for electronics, however, and requires the use of grounding

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protection methods.

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Electrostatic Discharge or ESD is a fact of everyday life and it is of particular importance in the electronics industry these days. Years ago when thermionic valves /

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vacuum tubes were used it was not a problem, and even with the introduction of transistors few considered it a problem.

However when MOSFETs were introduced their failure rates rose, the problem was investigated and it was found that static build up was sufficient to cause the oxide layer in the device to fail.

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