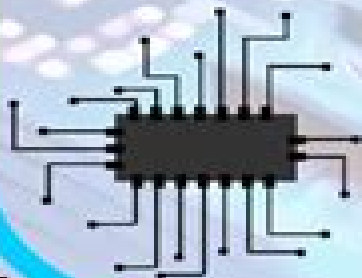


Radiation effects on semiconductor devices

- Radiation can degrade the performance of semiconductor devices by creating defects within their crystal lattice
- This damage affects charge carrier mobility and can lead to increased leakage current and changed threshold voltages
- Devices most susceptible include CCDs, transistors, and memory cells
- Shielding and careful material selection are common mitigation strategies in radiation-prone environments like space

Practical example: Electronics

- Radiation can significantly affect the performance of semiconductor devices found in everyday electronics like smartphones and computers
- When semiconductor materials are exposed to radiation, it can alter their electrical properties, leading to disruptions in device operation
- This is particularly critical in environments with high radiation levels, such as space or near nuclear plants, where electronics require special shielding to function reliably
- Understanding radiation effects is crucial for designing durable and stable electronic systems



Effects Of Radiation On Semiconductors

F. J. Reid



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