



# Handbook of Radiation Effects

*By Andrew Holmes-Siedle, Len Adams*

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## **Handbook of Radiation Effects** By Andrew Holmes-Siedle, Len Adams

This revised second edition of a popular handbook for engineers fills a gap in the fields of high-energy radiation environments, electronic device physics and materials. It is a straightforward account of the problems which arise when high-energy radiation bombards matter and of engineering methods for solving those problems. X-ray, electron and the 'hadron's' in CERN's new collider environments and several more are described. The impact of these environments on microelectronics in computing, data processing and communication is the core of this book. A large amount of technical data, needed to make predictions on the spot, is presented, with literature references needed for further research and also a compendium of websites which have been tested and used by the authors.

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### Editorial Review

#### Review

"Two scientists connected with Brunel University update their 1993 handbook for physicists and engineers. The original goal was to compile information from space environments, and those still dominate, though the environments of nuclear reactors, radiation processing, weapons, high-energy accelerators, and controlled fusion are also considered. Among other topics are measurement, responses of materials and devices, metal-oxide-semiconductor devices, bipolar transistors and integrated circuits, diodes, solar cells and optoelectronics, power semiconductors, and polymers and other organics. Biological effects are not covered. Dose units cited tend to be those used in practice--usually rad and rem--rather than the newer Gray and Sievert."--*SciTech Book News*

#### About the Author

Andrew Holmes-Siedle is a physicist and consultant to Brunel University of West London, collaborating on CERN research and developing silicon devices. He previously spent over ten years working in Princeton (USA) on space and defence programmes and owns REM Oxford Ltd..

Len Adams is a consultant to Spur Electron, advising the British National Space Centre and other agencies. He is also an Associate Professor at Brunel University of West London. He recently retired from the European Space Agency in The Netherlands, where his group handled most of the radiation problems for the Agency.

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