



Reliability Characterisation of Electrical and Electronic Systems (Woodhead Publishing Series in Electronic and Optical Materials)

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This book takes a holistic approach to reliability engineering for electrical and electronic systems by looking at the failure mechanisms, testing methods, failure analysis, characterisation techniques and prediction models that can be used to increase reliability for a range of devices.

The text describes the reliability behavior of electrical and electronic systems. It takes an empirical scientific approach to reliability engineering to facilitate a greater understanding of operating conditions, failure mechanisms and the need for testing for a more realistic characterisation. After introducing the fundamentals and background to reliability theory, the text moves on to describe the methods of reliability analysis and characterisation across a wide range of applications.

- Takes a holistic approach to reliability engineering
- Looks at the failure mechanisms, testing methods, failure analysis, characterisation techniques and prediction models that can be used to increase reliability
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Editorial Review

Review

"One chapter stands out in the book Reliability Characterization of Electrical and Electronic Systems, edited by Jonathan Swingler. That chapter is 'Reliability and Stupidity: Mistakes in Reliability Engineering and How to Avoid Them,'...Following are excerpts from that chapter." --**Power Electronics**

From the Back Cover

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- Reliability characterisation of electrical and electronic systems provides a standard reference work for electrical and electronic engineers and academics with an interest in the field.
- J. Swingler is Senior Lecturer in Energy at Heriot-Watt University within the School of Engineering and Physical Sciences (Electrical Engineering). His work is primarily focused on electrical contacts and interconnecting in automotive and aerospace systems.

About the Author

Jonathan Swingler is Senior Lecturer in Energy at Heriot-Watt University within the School of Engineering and Physical Sciences (Electrical Engineering). His work is primarily focused on electrical contacts and interconnecting in automotive and aerospace systems.

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Kathleen Duff:

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