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Index of Specifications and Standards, 1988

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Cher Ming Tan, Preetpal Singh, 2022-09-24 Reliability and Failure Analysis of High Power LED Packaging provides fundamental understanding of the reliability and failure analysis of materials for high power LED packaging with the ultimate goal of enabling new packaging materials. This book describes the limitations of the present reliability standards in determining the lifetime of high power LEDs due to the lack of deep understanding of the packaging materials and their interaction with each other. Many new failure mechanisms are investigated and presented with consideration of the different stresses imposed by varying environmental conditions. The detailed failure mechanisms are unique to this book and will provide insights for readers regarding the possible failure mechanisms in high power LEDs. The authors also show the importance of simulation in understanding the hidden failure mechanisms in LEDs. Along with simulation the use of various destructive and non destructive tools such as C SAM SEM FTIR Optical Microscopy etc in investigation of the causes of LED failures are reviewed. The advancement of LEDs in the last two decades has opened vast new applications for LEDs which also has led to harsher stress conditions for high power LEDs. Thus existing standards and reliability tests need to be revised to meet the new demands for high power LEDs. Introduces the failure mechanisms of high power LEDs under varying environmental conditions and methods of how to test simulate and predict them. Describes the chemistry underlying the material degradation and its impact on LEDs. Discusses future directions of new packaging materials for improved performance and reliability of high power LEDs.

The Seventh Mental Measurements Yearbook Oscar Krisen Buros, 1972

Advances in VLSI, Signal Processing, Power Electronics, IoT, Communication and Embedded Systems

Shubhakar Kalya, Muralidhar Kulkarni, Subramanya Bhat, 2023-08-28 This book comprises select peer reviewed papers from the International Conference on VLSI Signal Processing Power Electronics IoT Communication and Embedded Systems VSPICE 2022. The book provides insights into various aspects of electronics and communication engineering as a holistic approach. The various topics covered in this book include VLSI embedded systems signal processing communication power

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