



HALT, HASS, and HASA Explained: Accelerated Reliability Techniques, Revised Edition

By Harry W. McLean

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Readers will find all that is required to implement a successful accelerated reliability program in this groundbreaking book. It has been prepared with both novices and experts in mind. It has been written so that either can find information that will aid them in their quest to produce high-reliability products without getting bogged down in equations. HALT, a process for the ruggedization of preproduction products, and HASS, the production screen for the products once they have been characterized in HALT, are the primary focal points in this book. For those wishing to delve into more advanced topics, three versions of a production audit, HASA, are also included. These may be of interest to the high-volume producer or to those who wish to audit their overall production processes rather than to screen all of the products. Author Harry McLean shares the knowledge he has acquired in helping employers and clients manufacture products which far exceeded stated reliability expectations as soon as they were released into production. Many who are using these techniques are included in the world's top 50 electronic and electromechanical companies and have seen their market share climb from the dust in the rear of the pack to be the industry leader in a short time. Others have used HALT, HASS, and HASA techniques to increase warranty coverage for their products three times the industry norm and still reduce their overall warranty expense as well as to dramatically increase their market share. Others have used them to assist in the winning of the coveted Baldrige award.

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Editorial Review

About the Author

Harry W. McLean is currently employed as a Reliability Engineering Manager at AT&T Wireless Services in Redmond, Washington. He has completed, throughout his career, over 150 HALTs in Medical, Avionics, Telecom, Automotive, Storage Devices and Information Technology equipment throughout North and South America. Hewlett-Packard employed Harry for twenty-five years, and during his career he held various positions in production, research and development, and quality and reliability engineering. While at HP he helped the company move beyond the use of traditional environmental and qualification methods to HALT and HASS, and designed and implemented the HASA process that is included in this book. Following his time with HP McLean was employed with QualMark where he consulted with many companies in the successful application of HALT and HASS, was the project research and development manager, and also taught HALT and HASS seminars. McLean received his electrical engineering degree from Northeastern University in Boston, MA.

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