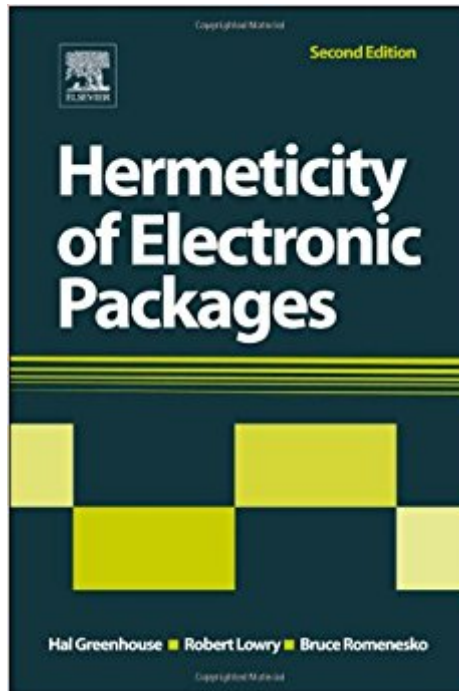




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Hermeticity Of Electronic Packages, Second Edition



Synopsis

This is a book about the integrity of sealed packages to resist foreign gases and liquids penetrating the seal or an opening (crack) in the package—especially critical to the reliability and longevity of electronics. The author explains how to predict the reliability and the longevity of the packages based on leak rate measurements and the assumptions of impurities. Non-specialists in particular will benefit from the author's long involvement in the technology. Hermeticity is a subject that demands practical experience, and solving one problem does not necessarily give one the background to solve another. Thus, the book provides a ready reference to help deal with day to day issues as they arise. The book gathers in a single volume a great many issues previously available only in journals or only in the experience of working engineers. How to define the "goodness" of a seal? How is that seal measured? How does the integrity of the seal affect circuit reliability? What is the significance of the measured integrity of the seal? What is the relationship of Residual Gas Analysis and the seal integrity? The handbook answers these questions and more, providing an analysis of nearly 100 problems representative of the wide variety of challenges that actually occur in industry today.

Book Information

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Customer Reviews

Essentials of hermeticity technology for package engineers, scientists and technicians as well as novice users, package designers, reliability engineers and those who measure and evaluate the

integrity of packages, especially in the field of microelectronics. --This text refers to an out of print or unavailable edition of this title.

Hal Greenhouse worked for many years at the Bendix Aviation Corporation in Baltimore, MD. His career there began in 1959 in hybrid microcircuit technology in the Bendix Radio Division and the development of thin film technology for use in hybrid microcircuits. He was instrumental in the building of a thick film hybrid microcircuit facility in 1980 and lead designer of over a dozen high reliability hybrid microcircuits for a missile system as well as the design of over 100 hybrid microcircuits and multi chip modules. The author has published a score of papers and 5 patents, one of which is basic and issued in over 20 countries. He is a member of numerous professional societies. --This text refers to an out of print or unavailable edition of this title.

Concisely covers hermeticity, from the theory to practical calculations. It has not gotten dated and is a quick reference tool.

This is simply a must have book for your professional library!

Great technical reference book!

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