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Volume 1: Packaging is an authoritative reference source of practical information for the design or process engineer who must make informed day-to-day decisions about the materials and processes of microelectronic packaging. Its 117 articles offer the collective knowledge, wisdom, and judgement of 407 microelectronics packaging experts-authors, co-authors, and reviewers-representing 192 companies, universities, laboratories, and other organizations. This is the inaugural volume of ASMAs all-new ElectronicMaterials Handbook series, designed to be the Metals Handbook of electronics technology. In over 65 years of publishing the Metals Handbook, ASM has developed a unique editorial method of compiling large technical reference books. ASMAs access to leading materials technology experts enables to organize these books on an industry consensus basis. Behind every article. Is an author who is a top expert in its specific subject area. This multi-author approach ensures the best, most timely information throughout. Individually selected panels of 5 and 6 peers review each article for technical accuracy, generic point of view, and completeness. Volumes in the Electronic Materials Handbook series are multidisciplinary, to reflect industry practice applied in integrating multiple technology disciplines necessary to any program in advanced electronics. Volume 1: Packaging focusing on the middle level of the electronics technology size spectrum, offers the greatest practical value to the largest and broadest group of users. Future volumes in the series will address topics on larger (integrated electronic assemblies) and smaller (semiconductor materials and devices) size levels.

The first book in a two-volume revision of the 1987 Metals Handbook, 9th edition, addresses the needs of the global technical community for current information. Chapters on fundamentals cover the theory of aqueous and gaseous corrosion from thermodynamic and kinetic perspectives, while chapters on forms of corrosion tell how to recognize different types and the forces that influence them. Testing and evaluation methods are addressed as are methods of protection and topics related to redesigning for corrosion control and prevention. A section on tools for the corrosionist provides conventions and definitions, information sources and databases, and information on analytical instruments. The editors are affiliated with the Albany Research Center, US Department of Energy. Annotation :2004 Book News, Inc., Portland, OR (booknews.com).

Complete Investigative Toolkit for Metal Failure-Design or Process Whether the problem is corrosion on the working surfaces of valuable or life-essential machinery, breakdowns in linchpin equipment, or life-threatening faults in air- or spacecraft, the causes must be found so that future disasters may be prevented. Metallurgy of Failure Analysis puts the tools for finding the answers in your hands. A complete guide to all types of metal failure, both design and process, it features: coverage of faults due to casting, forging, welding, machining, and heat treatment; analysis of the concepts and mechanisms of fatigue, stress corrosion, hydrogen embrittlement, and more; remedial measure for corrosion, overload, fatigue, and wear; investigative procedures including destructive, nondestructive, and fractographic analysis.

The selection and application of engineered materials is an integrated process that requires an understanding of the interaction between materials properties, manufacturing characteristics, design considerations, and the total life cycle of the product. This reference book on engineering plastics provides practical and comprehensive coverage on how the performance of plastics is characterized during design, property testing, and failure analysis. The fundamental structure and properties of plastics are reviewed for general reference, and detailed articles describe the important design factors, properties, and failure mechanisms of plastics. The effects of composition, processing, and structure are detailed in articles on the physical, chemical, thermal, and mechanical properties. Other articles cover failure mechanisms such as: crazing and fracture; impact loading; fatigue failure; wear failures, moisture related failure; organic chemical related failure; photolytic degradation; and microbial degradation. Characterization of plastics in failure analysis is described with additional articles on analysis of structure, surface analysis, and fractography.

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