Solder Mechanics

A State of the Art Assessment



Santa Fe, New Mexico • 1990

D.R. Frear, W.B. Jones, K.R. Kinsman

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Darrel R. Frear, Steven N. Burchett, Harold S. Morgan, John H. Lau, 1994-01-31 The Mechanics of Solder Alloy Interconnects is a resource to be used in developing a solder joint reliability assessment Each chapter is written to be used as a stand alone resource for a particular aspect of materials and modeling issues With this gained understanding the reader in search of a solution to a solder joint reliability problem knows where in the materials and modeling communities to go for the **Solder Mechanics** D. R. Frear,1991 Solder Mechanics D. R. Frear, 1991 appropriate answer Solder Mechanics D. R. Frear, W. B. Jones, K. R. Kinsman, 1991-01-01 **Lead-Free Electronic Solders KV** Subramanian, 2007-06-28 Even though the effect of lead contamination on human health has been known for decades very little attention has been paid to lead based solders used in electronics until recently This comprehensive book examines all the important issues associated with lead free electronic solder It collects the work of researchers recognized for their The Mechanics of Solder Alloy Wetting and Spreading Michael significant scientific contributions in the area Hosking, Frederick G. Yost, 2012-12-06 In 1992 Congress passed the Defense Manufacturing Engineering Education Act with the intent of encouraging academic institutions to increase their emphasis on manufacturing curricula The need for this incentive to integrate the academic and industrial communities was clear gaps in manufacturing science were inhibiting the evolution of new manufacturing technologies that are required for the U S to maintain a competitive posture in the world marketplace The Army Research Laboratory and Sandia National Laboratories sought to contribute to the congressional intent by initiating a new series of graduate level college textbooks The goal was to focus next generation scientists onto issues that were common to the needs of the commercial market the affordability of DoD weapons systems and the mobilization readiness of the U S Armed Forces The textbook The Mechanics of Solder Wetting and Spreading was written in this spirit by nationally renowned scientists for academe and industry Research ers using the book are encouraged to formulate programs that will establish scien tific correlations between manufacturing process controls and product reliability Such correlations are essential to the building of a new electronics industry which is based upon the futuristic concepts of Virtual Factories Prototyping and Testing <u>Lead-Free Solder Interconnect Reliability</u> Dongkai Shangguan, 2005

Mechanics of Solder Alloy Interconnects

Fatigue of Electronic Materials Scott A. Schroeder, Michael R. Mitchell, 1994 Unlike earlier electronic circuits today s microelectronic devices demand that solder serve structural as well as electrical ends and do so at relatively high temperature for years Fatigue and failure of the solder has therefore become an issue in the industry Nine studies from a May 1993 sympos **Soldering Processes and Equipment** Michael G. Pecht, 1993-08-30 Addresses the key aspects of modern soldering technology and the methods used in the manufacturing process of microelectronic chips and electronic circuit boards Demonstrates how to control contamination during cleaning procedures Covers material dynamics of heat

soldering incurred during the assembly of diverse substances Features techniques to assure reliability and quality control during the manufacturing process and emphasizes the importance of rework in the soldering industry

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