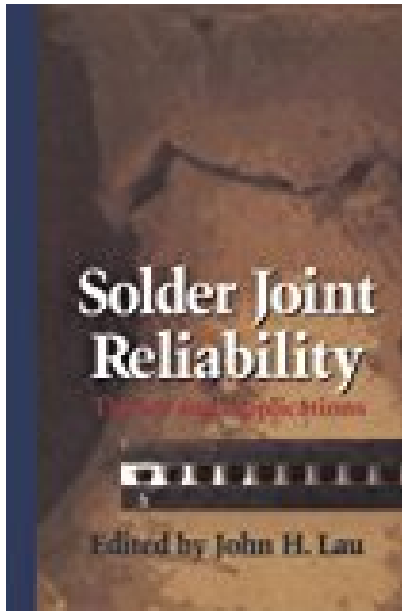


Solder Joint Reliability Theory and Applications



BOOK DETAILS

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BOOK SYNOPSIS

Solders have given the designer of modern consumer, commercial, and military electronic systems a remarkable flexibility to interconnect electronic components. The properties of solder have facilitated broad assembly choices that have fueled creative applications to advance technology. Solder is the electrical and mechanical "glue" of electronic assemblies. This pervasive dependency on solder has stimulated new interest in applications as well as a more concerted effort to better understand materials properties. We need not look far to see solder being used to interconnect ever finer geometries. Assembly of micropassive discrete devices that are hardly visible to the unaided eye, of silicon chips directly to ceramic and plastic substrates, and of very fine peripheral leaded packages constitute a few of solder's uses. There has been a marked increase in university research related to solder. New electronic packaging centers stimulate applications, and materials engineering and science departments have demonstrated a new vigor to improve both the materials and our understanding of them. Industrial research and development continues to stimulate new applications, and refreshing new packaging ideas are emerging. New handbooks have been published to help both the neophyte and seasoned packaging engineer.

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