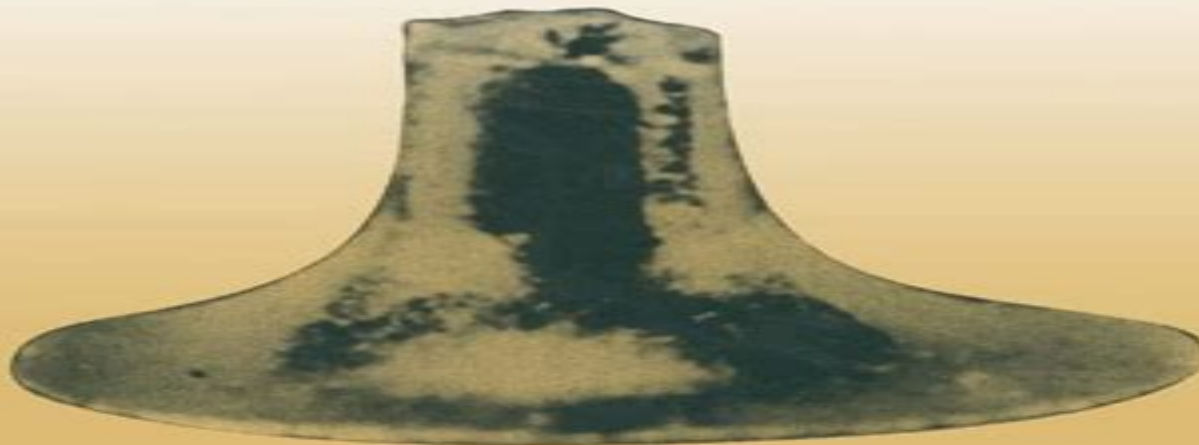


SOLDERING HANDBOOK

FOR
PRINTED CIRCUITS
AND
SURFACE MOUNTING

Second Edition



HOWARD H. MANKO

Soldering Handbook For Printed Circuits And Surface Mounting

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Contamination problems have become a major factor in determining the manufacturability quality and reliability of electronic assemblies. Understanding the mechanics and chemistry of contamination has become necessary for improving quality and reliability and reducing costs of electronic assemblies. Designed as a practical guide, *Contamination of Electronics Assembly Handbook* by Keith Brindley, 2016-06-30, Newnes. **Cleaning Printed Wiring Assemblies in Today's Environment** by L. Hymes, 2012-12-06. The impetus to create this book originated from several concerns. One of these was the perceived value to the industry of a collection in one volume of a wide range of information pertinent to the reasons and techniques for de fluxing printed wiring assemblies (PWAs). This book is expected to be of use not only to those engaged in the electronics packaging industry but also to those in related fields seeking information concerning viable methods of dealing with one of the environmental issues of our time: the destruction of the ozone layer surrounding and protecting the planet with which we have been entrusted. The volume of information relative to providing PWAs free of residues adversely impacting operation, reliability, and life of electronic products is growing and it will continue to expand at an accelerated rate as we seek to match our technology needs and desires with our environmental responsibilities. At the time of this writing, which has spanned the latter portion of 1989 and early 1990, the issue of choosing a new approach to producing PWAs free of detrimental residues while using environmentally acceptable manufacturing techniques appeared to be the major concern of the vast majority of those involved in the printed wiring assembly industry. To many, this meant the use of different cleaning media and/or process or equipment enhancements; to others, it meant the elimination of the need to clean through materials or process changes. **Mechanics of Solder Alloy Interconnects** by 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 appropriate answer.

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