



# The Handbook of Machine Soldering: SMT and TH

*By Ralph W. Woodgate*

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**The Handbook of Machine Soldering: SMT and TH** By Ralph W. Woodgate

A shop-floor guide to the machine soldering of electronics

Sound electrical connections are the operational backbone of every piece of electronic equipment--and the key to success in electronics manufacturing. The Handbook of Machine Soldering is dedicated to excellence in the machine soldering of electrical connections. Self-contained, comprehensive, and down-to-earth, it cuts through jargon, peels away outdated notions, and presents all the information needed to select, install, and operate machine soldering equipment.

This fully updated and revised volume covers all of the new technologies and processes that have emerged in recent years, most notably the use of surface mount technology (SMT). Supplemented with 200 illustrations, this thoroughly accessible text

Describes reflow and wave soldering in detail, including reflow soldering of SMT boards and the use of nitrogen blankets

- \* Explains the setup, operation, and maintenance of a variety of soldering machines

- \* Discusses theory, selection, and control methods for solder, fluxes, and solder paste

- \* Defines standards of quality and shows how they can be achieved and maintained

Widely accepted in industrial and military circles, The Handbook of Machine Soldering is an important resource for production managers, engineers, supervisors, operators, and anyone involved day-to-day in electronic manufacturing. It is a proven text for upper-level undergraduate college courses and for soldering seminars geared toward apprentices and future managers.

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### **Editorial Review**

From the Publisher

Completely rewritten, this edition is designed to provide readers with a mental picture of the process being discussed--without using complex or scientific terms while maintaining technical accuracy. This practical one-stop reference contains all the information essential to select, install, and operate machine soldering equipment. Describes how to set up the organization to obtain defect-free soldering. Includes the following new subject matter: specification and use of solder paste; design and use of stencils to apply solder paste; reflow soldering of SMT boards, development and setting up of thermal profiles, and a variety of reflow systems. The latest changes in specifications and standards are reflected throughout the text.

From the Back Cover

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About the Author

Ralph W. Woodgate is President of WoodCorp in Brewster, New York. He served as Chairman of the Joining Handbook Committee and earned his Cambridge Senior Certificate at the King Edward School.

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