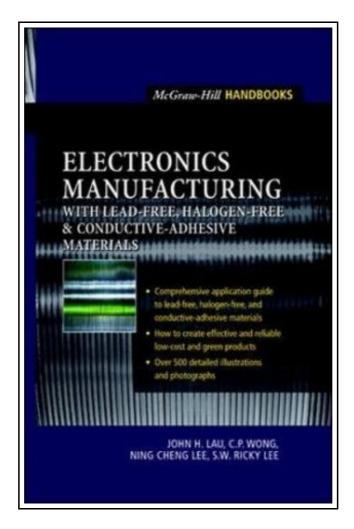
Electronics Manufacturing: with Lead-Free, Halogen-Free, and Conductive-Adhesive Materials (Hardback)



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Reviews

This is actually the best ebook we have read till now. Indeed, it can be enjoy, nevertheless an interesting and amazing literature. You will not feel monotony at whenever you want of the time (that's what catalogs are for regarding should you question me). (Jamar Stracke)

ELECTRONICS MANUFACTURING: WITH LEAD-FREE, HALOGEN-FREE, AND CONDUCTIVE-ADHESIVE MATERIALS (HARDBACK)



McGraw-Hill Education - Europe, United States, 2002. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. This comprehensive guide provides cutting edge information on lead-free, halogen-free, and conductive-adhesive technologies and their application to low-cost, high-density, reliable, and green products. Essential for electronics manufacturing and packaging professionals who wish to master lead-free, halogen-free, and conductive-adhesive problem solving methods, and those demanding costeffective designs and high-yield environmental benign manufacturing processes, this valuable reference covers all aspects of this fast-growing field. Written for design, materials, process, equipment, manufacturing, reliability, component, packaging, and system engineers, and technical and marketing managers in electronics and photonics packaging and interconnection, this book teaches a practical understanding of the cost, design, materials, process, equipment, manufacturing, and reliability issues of lead-free, halogen-free, and conductiveadhesive technologies. Among the topics explored: chip (wafer) level interconnects with lead-free solder bumps; lead-free solder wafer bumping with micro-ball mounting and paste printing methods; lead-free solder joint reliability of WLCSPs on organic and ceramic substrates; chip (wafer) level interconnects with solderless bumps such as Ni-Au, Au, and Cu, Cu wires, Au wires, Au studs, and Cu studs; design, materials, process, and reliability of WLCSPs with solderless interconnects on PCB/substrate; halogen-free molding compounds for PQFP, PBGA, and MAP-PBGA packages; environmentally benign die-attach films for PQFP and PBGA packages and lead-free die-attach bonding techniques for IC packaging; environmental issues for conventional PCBs and substrates; some environmentally conscious flame-retardants for PCBs and organic substrates; emerging technologies for fabricating environmental friendly PCBs such as design for environment, green PCB manufacturing, and environmental safety. It also includes the topics: lead-free soldering activities such as legislation, consortia programs, and regional preferences on lead-free solder alternatives; criteria, development approaches, and varieties of alloys and properties of lead-free solders; physical, mechanical, chemical, electrical, and soldering properties of lead-free solders;...

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