



# WIRE BONDING IN MICROELECTRONICS, 3/E

*George Harman*

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## The Industry Standard Guide to Wire Bonding--Fully Updated

The definitive resource on the critical process of connecting semiconductors with their packages. *Wire Bonding in Microelectronics*, Third Edition, has been thoroughly revised to help you meet the challenges of today's small-scale and fine-pitch microelectronics. This authoritative guide covers every aspect of designing, manufacturing, and evaluating wire bonds engineered with cutting-edge techniques. In addition to gaining a full grasp of bonding technology, you'll learn how to create reliable bonds at exceedingly high yields, test wire bonds, solve common bonding problems, implement molecular cleaning methods, and much more.

### COVERAGE INCLUDES:

- Ultrasonic bonding systems and technologies, including high-frequency systems
- Bonding wire metallurgy and characteristics, including copper wire
- Wire bond testing
- Gold-aluminum intermetallic compounds and other interface reactions
- Gold and nickel-based bond pad plating materials and problems
- Cleaning to improve bondability and reliability
- Mechanical problems in wire bonding
- High-yield, fine-pitch, specialized-looping, soft-substrate, and extreme-temperature wire bonds
- Copper, low-dielectric-constant (Cu/Lo-k) technology and problems
- Wire bonding process modeling and simulation

CD includes all of the book's full-color figures plus animations.

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