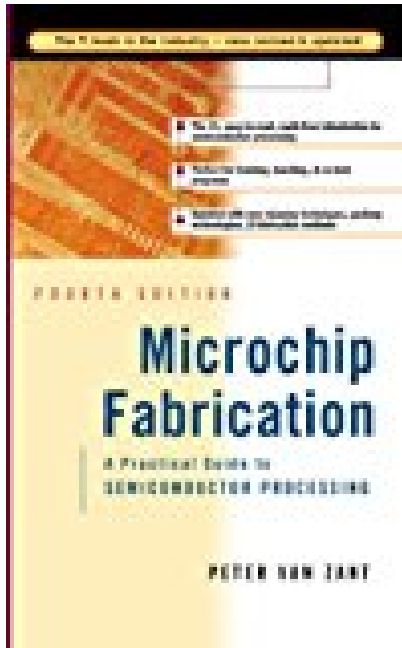


Microchip Fabrication A Practical Guide to Semiconductor Processing



BOOK DETAILS

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BOOK SYNOPSIS

The most complete, current guide to semiconductor processing Fully revised to cover the latest advances in the field, *Microchip Fabrication, Sixth Edition* explains every stage of semiconductor processing, from raw material preparation to testing to packaging and shipping the finished device. This practical resource provides easy-to-understand information on the physics, chemistry, and electronic fundamentals underlying the sophisticated manufacturing materials and processes of modern semiconductors. State-of-the-art processes and cutting-edge technologies used in the patterning, doping, and layering steps are discussed in this new edition. Filled with detailed illustrations and real-world examples, this is a comprehensive, up-to-date introduction to the technological backbone of the high-tech industry.

COVERAGE INCLUDES: The semiconductor industry Properties of semiconductor materials and chemicals Crystal growth and silicon wafer preparation Wafer fabrication and packaging Contamination control Productivity and process yields Oxidation The ten-step patterning process--surface preparation to exposure; developing to final inspection Next generation lithography Doping Layer deposition Metallization Process and device evaluation The business of wafer fabrication Devices and integrated circuit formation Integrated circuits Packaging

MICROCHIP FABRICATION A PRACTICAL GUIDE TO SEMICONDUCTOR

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