



**Electronic Design Automation for IC
Implementation, Circuit Design, and Process
Technology: Circuit Design, and Process
Technology, Second Edition (Electronic ...
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The second of two volumes in the *Electronic Design Automation for Integrated Circuits Handbook, Second Edition*, **Electronic Design Automation for IC Implementation, Circuit Design, and Process Technology** thoroughly examines real-time logic (RTL) to GDSII (a file format used to transfer data of semiconductor physical layout) design flow, analog/mixed signal design, physical verification, and technology computer-aided design (TCAD). Chapters contributed by leading experts authoritatively discuss design for manufacturability (DFM) at the nanoscale, power supply network design and analysis, design modeling, and much more.

New to This Edition:

- Major updates appearing in the initial phases of the design flow, where the level of abstraction keeps rising to support more functionality with lower non-recurring engineering (NRE) costs
- Significant revisions reflected in the final phases of the design flow, where the complexity due to smaller and smaller geometries is compounded by the slow progress of shorter wavelength lithography
- New coverage of cutting-edge applications and approaches realized in the decade since publication of the previous edition—these are illustrated by new chapters on 3D circuit integration and clock design

Offering improved depth and modernity, **Electronic Design Automation for IC Implementation, Circuit Design, and Process Technology** provides a valuable, state-of-the-art reference for electronic design automation (EDA) students, researchers, and professionals.

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