



# Electronic Design Automation for Integrated Circuits Handbook - 2 Volume Set (Industrial Information Technology)

*Luciano Lavagno, Grant Martin, Louis Scheffer*

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Electronic design automation (EDA) is among the crown jewels of electrical engineering. Without EDA tools, today's complex integrated circuits (ICs) would be impossible. Doesn't such an important field deserve a comprehensive, in-depth, and authoritative reference? The Electronic Design Automation for Integrated Circuits Handbook is that reference, ranging from system design through physical implementation. Organized for convenient access, this handbook is available as a set of two carefully focused books dedicated to the front- and back-end aspects of EDA, respectively.

What's included in the Handbook?

### EDA for IC System Design, Verification, and Testing

This first installment examines logical design, focusing on system-level and micro-architectural design, verification, and testing. It begins with a general overview followed by application-specific tools and methods, specification and modeling languages, high-level synthesis approaches, power estimation methods, simulation techniques, and testing procedures.

### EDA for IC Implementation, Circuit Design, and Process Technology

Devoted to physical design, this second book analyzes the classical RTL to GDS II design flow, analog and mixed-signal design, physical verification, analysis and extraction, and technology computer aided design (TCAD). It explores power analysis and optimization, equivalence checking, placement and routing, design closure, design for manufacturability, process simulation, and device modeling.

Comprising the work of expert contributors guided by leaders in the field, the Electronic Design Automation for Integrated Circuits Handbook provides a foundation of knowledge based on fundamental concepts and current industrial applications. It is an ideal resource for designers and users of EDA tools as well as a detailed introduction for newcomers to the field.

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