

## <<从ASIC到SOC>>

### 图书基本信息

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### 内容概要

Information you can put straight to work! ASICs (Application-Specific Integrated Circuits) and SOC (Systems On a Chip) are among the hottest topics in semiconductor chip design today. If you're a front-end or back-end chip designer looking to learn the latest techniques and methodologies, this book is for you. From ASICs to SOTs: A Practical Approach explains ASIC and SOC design and verification for the real world--by covering the same issues and dilemmas you'll face on the job! An emphasis on techniques and principles over the particulars of design tools gives you a deeper understanding of the material and will make you much more effective in your work, regardless which tools you use. Topics include:

- Methodologies and design flows for front-end and back-end designs
- Modern physical design techniques
- Integration of IPs on SOC designs
- Low-power design techniques and methodologies
- VoIP (Voice over IP) and STB (Set-Top Box) SOC design examples
- Tips and guidelines for front-end and back-end designs

With content centering on practical and current information and techniques, From ASICs to SOC: A Practical Approach is intended for self-study by practical ASIC and SOC engineers. It also makes an excellent reference book for graduate students in electrical engineering.

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