

An ASIC Low Power Primer: Analysis, Techniques and Specification

Rakesh Chadha, J. Bhasker

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An ASIC Low Power Primer: Analysis, Techniques and **Specification**

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An ASIC Low Power Primer: Analysis, Techniques and Specification Rakesh Chadha, J. Bhasker This book provides an invaluable primer on the techniques utilized in the design of low power digital semiconductor devices. Readers will benefit from the hands-on approach which starts form the ground-up, explaining with basic examples what power is, how it is measured and how it impacts on the design process of application-specific integrated circuits (ASICs). The authors use both the Unified Power Format (UPF) and Common Power Format (CPF) to describe in detail the power intent for an ASIC and then guide readers through a variety of architectural and implementation techniques that will help meet the power intent. From analyzing system power consumption, to techniques that can be employed in a low power design, to a detailed description of two alternate standards for capturing the power directives at various phases of the design, this book is filled with information that will give ASIC designers a competitive edge in low-power design.



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