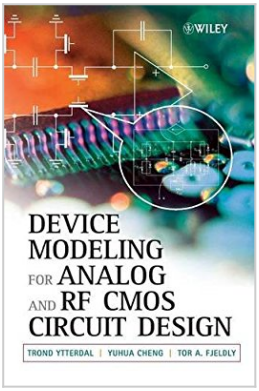

Device Modeling for Analog and RF CMOS Circuit Design

By Trond Ytterdal, Yuhua Cheng, Tor A. Fjeldly

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- Bridges the gap between device modelling and analog circuit design.
- Includes dedicated software enabling actual circuit design.
- Covers the three significant models: BSIM3, Model 9 &, and EKV.
- Presents practical guidance on device development and circuit implementation.
- The authors offer a combination of extensive academic and industrial experience.

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Editorial Review

Review
"…this book will prove a valuable reference and text for engineers striving to achieve first-time right, reduced time-to-market silicon products." (*IEEE Solid-State Circuits Society Newsletter*, January 2004)

From the Back Cover
In order to keep up with global demand, microelectronics engineers are continually challenged to produce increasingly complex, high performance integrated circuits. The steady downscaling of MOSFET/CMOS technology has highlighted the need for a thorough understanding of the properties, potentials and limitations of the latest device models and technology. Presenting state-of-the-art MOSFET models, this book will prove a valuable reference and text for engineers striving to achieve first-time-right, reduced time-to-market silicon products.

Featuring:

- A complete survey of the CMOS device models used in modern analog and RF integrated circuit design.
- A thorough treatment of the device modeling challenges faced by designers today.
- An examination of the most commonly used MOSFET models, including BSIM4 and EKV.
- A discussion of the modeling of process variations and device mismatch effects, along with device model quality assurance.
- Two accompanying software packages, AIM-Spice and MOSCalc, available via the Internet.

Bridging the gap between modeling and analog circuit design *Device Modeling for Analog & RF CMOS Circuit Design* will appeal to practicing microelectronics engineers and senior and graduate level students following courses in analog integrated circuit design.

Users Review

From reader reviews:

Andrew Waite:

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