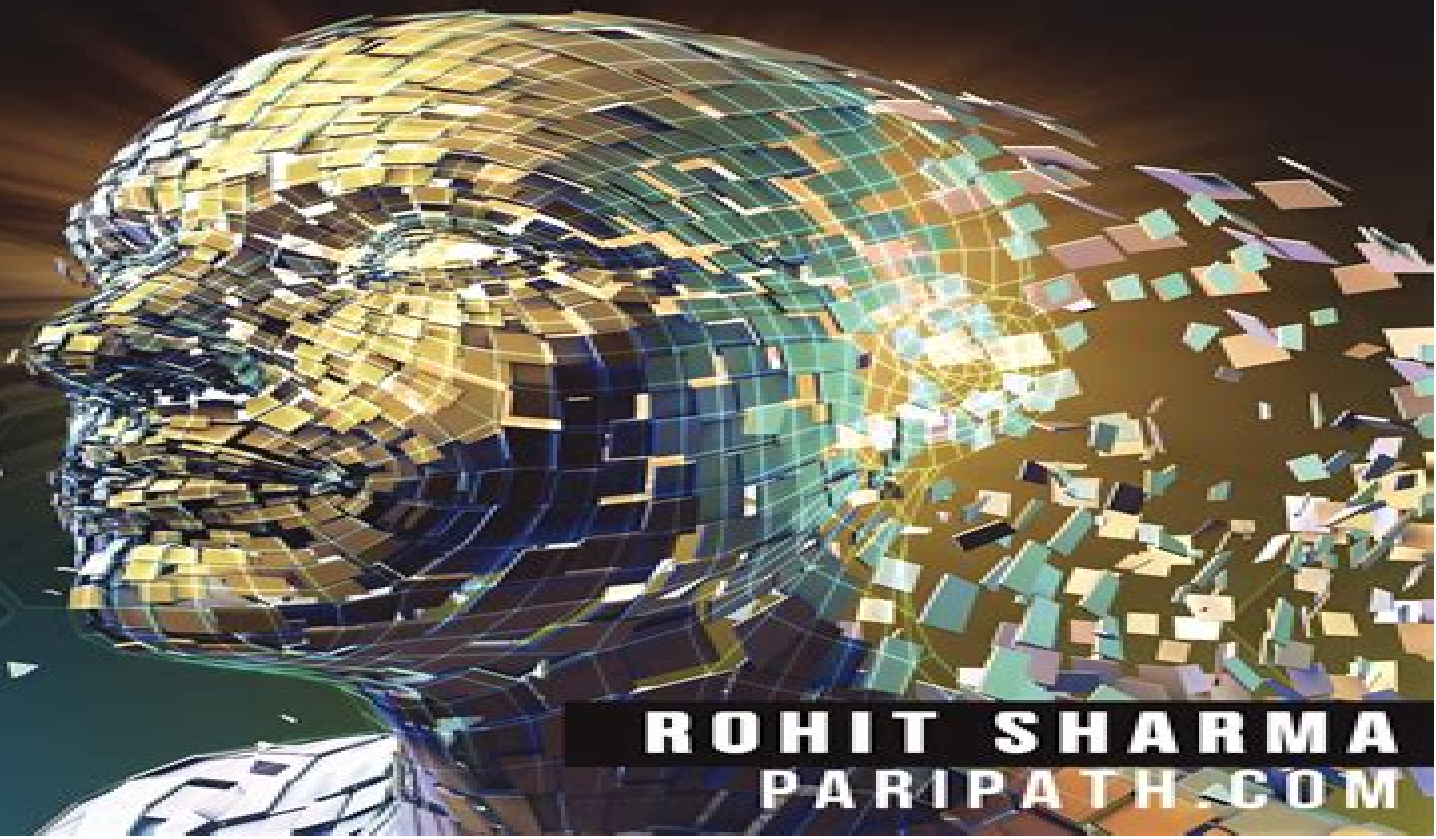


# CHARACTERIZATION AND MODELING OF DIGITAL CIRCUITS



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# Characterization And Modeling Of Digital Circuits

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success in printed circuit or monolithic microwave integrated circuit MMIC design Several approaches are taken into consideration such as the effects of currents on the ground plane bypass and coupling capacitors and nonlinear effects in linear circuits Featured topics include Incorporation of component parasitics in the design cycle Closed form solution to oscillator design Odd mode stability analysis PIN diode analysis for high power switching applications An integrated design example of a 1.25 GHz amplifier oscillator and filter printed circuit is also included which could be useful in printed circuit board designs from tens of megahertz to tens of gigahertz Introduction to Microwave Circuits provides the tools necessary to analyze or synthesize microwave circuits This text is an essential reference for undergraduate students microwave engineers and administrators Also it will assist experienced designers in other fields to meet the current rapid expansion of communication system applications and work effectively in microwave circuit design About the Author Robert J Weber began his prolific career in the Solid State Research Laboratory at the Collins Radio Company later a part of Rockwell International For 25 years he worked on advanced development and applied research in the one to ten gigahertz frequency range and received several distinguished awards for his valuable contributions to the field Dr Weber is involved in ongoing experimental research in integrating microwave circuits with other devices such as MEMS chemical sensors and electro optics Also he teaches microwave circuit design and fiber optics communications at the Department of Electrical and Computer Engineering Iowa State University Dr Weber is an IEEE Fellow Sponsored by IEEE Microwave Theory and Techniques Society

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**Proceedings of the IEEE 1999 Custom Integrated Circuits Conference**, 1999 *Analysis and Design of Energy-efficient Digital Circuits* Bart Richard Zeydel, 2006

**VLSI Design Techniques for Analog and Digital Circuits** Randall L. Geiger, Phillip E. Allen, Noel R.

Strader,1990      40th Electronic Components & Technology Conference ,1990      **Proceedings of the Technical Conference** ,1992      **BiCMOS Integrated Circuit Design** IEEE Solid-State Circuits Council,1994 This up to date book with its introductory tutorial provides extensive coverage on BiCMOS potentially the most important silicon technology of the 1990 s Many commercial products are currently utilizing BiCMOS ICs and an exponential growth is expected Elmasry provides the latest information on processing technologies circuit analysis and techniques and applications in the areas of analog digital and smart power BiCMOS Integrated Circuit Design is an important guide for engineers working in BiCMOS processing modeling characterization circuit design and applications as well as a valuable learning tool for college seniors and graduate students      **Device Modeling for Analog and RF CMOS Circuit Design** Trond Ytterdal,Yuhua Cheng,Tor A. Fjeldly,2003-05-07 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      **The RF and Microwave Handbook** John Michael Golio,2008      *Electromagnetic Modeling of High-speed High-frequency Interconnects* Jong-Gwan Yook,1996      **Proceedings** ,1990      **Electrical & Electronics Abstracts** ,1997      Is There an Electrical Engineer Inside You? Celeste Baine,2004 Specific advice for those considering a career in electrical engineering      **XII Symposium on Integrated Circuits and Systems Design** Sociedade Brasileira de Computação,IFIP WG 10.5,1999 Topics in these conference papers include microprocessors design modelling co design analog design high level synthesis digital design synthesis and reconfiguration CAD tools and IP cores

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