



# High-Frequency Integrated Circuits (The Cambridge RF and Microwave Engineering Series)

By Sorin Voinigescu

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A transistor-level, design-intensive overview of high speed and high frequency monolithic integrated circuits for wireless and broadband systems from 2 GHz to 200 GHz, this comprehensive text covers high-speed, RF, mm-wave, and optical fibre circuits using nanoscale CMOS, SiGe BiCMOS, and III-V technologies. Step-by-step design methodologies, end-of chapter problems, and practical simulation and design projects are provided, making this an ideal resource for senior undergraduate and graduate courses in circuit design. With an emphasis on device-circuit topology interaction and optimization, it gives circuit designers and students alike an in-depth understanding of device structures and process limitations affecting circuit performance.

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**High-Frequency Integrated Circuits (The Cambridge RF and Microwave Engineering Series) By Sorin Voinigescu Bibliography**

- Sales Rank: #902489 in Books
- Brand: Brand: Cambridge University Press
- Published on: 2013-05-06
- Original language: English
- Number of items: 1
- Dimensions: 9.69" h x 1.61" w x 7.44" l, 4.05 pounds
- Binding: Hardcover
- 918 pages

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James Buckwalter, University of California, San Diego

"... Both experienced designers and newcomers in the field will appreciate this book ... the many detailed design recipes and tricks - often with a link to the underlying IC technologies - that are seldom found in related text books."

Piet Wambacq, University of Brussels and IMEC

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L. McLauchlan, Choice

"If I was a professor looking for a text to use in teaching a microwave integrated circuits course, I would pick this book. When I get asked where to go to learn about all this microwave stuff, Voinigescu's book will be on my shortlist ..."

IEEE Microwave Magazine

#### About the Author

Sorin Voinigescu is a Professor at the University of Toronto, where his research and teaching interests focus on nano-scale semiconductor devices and their application in integrated circuits at frequencies beyond 300 GHz. The co-founder of Quake Technologies, Inc., he was a recipient of the Best Paper Award at the 2001 IEEE Custom Integrated Circuits Conference, 2005 IEEE Compound Semiconductor IC Symposium (CSICS) and of the Beatrice Winner Award at the 2008 IEEE International Solid State Circuits Conference (ISSCC). His students have won Student Paper Awards at the 2004 VLSI Circuits Symposium, the 2006 RFIC Symposium and at the 2008 International Microwave Symposium.

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