



# Integration of Passive RF Front End Components in SoCs

By Hooman Darabi, Ahmad Mirzaei

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Examining the most important developments in highly integrated wireless RF front-ends, this book describes and evaluates both active and passive solutions for on-chip high-Q filtering, and explores M-phase filters in depth. An accessible step-by-step approach is used to introduce everything an RF designer needs to know about these filters, including their various forms, principles of operation, and their performance against implementation-related imperfections. Real-world examples are described in depth, and detailed mathematical analyses demonstrate the practical quantification of pertinent circuit parameters.

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#### **About the Author**

Hooman Darabi is a Senior Technical Director and Fellow of Broadcom Corporation, California, and an Adjunct Professor at the University of California, Irvine. He is an IEEE Solid State Circuits Society distinguished lecturer.

Ahmad Mirzaei is a Senior Principal Scientist within the Mobile and Wireless division of Broadcom Corporation, California. His research interests involve analog and RF IC design for wireless communications.

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