



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.

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