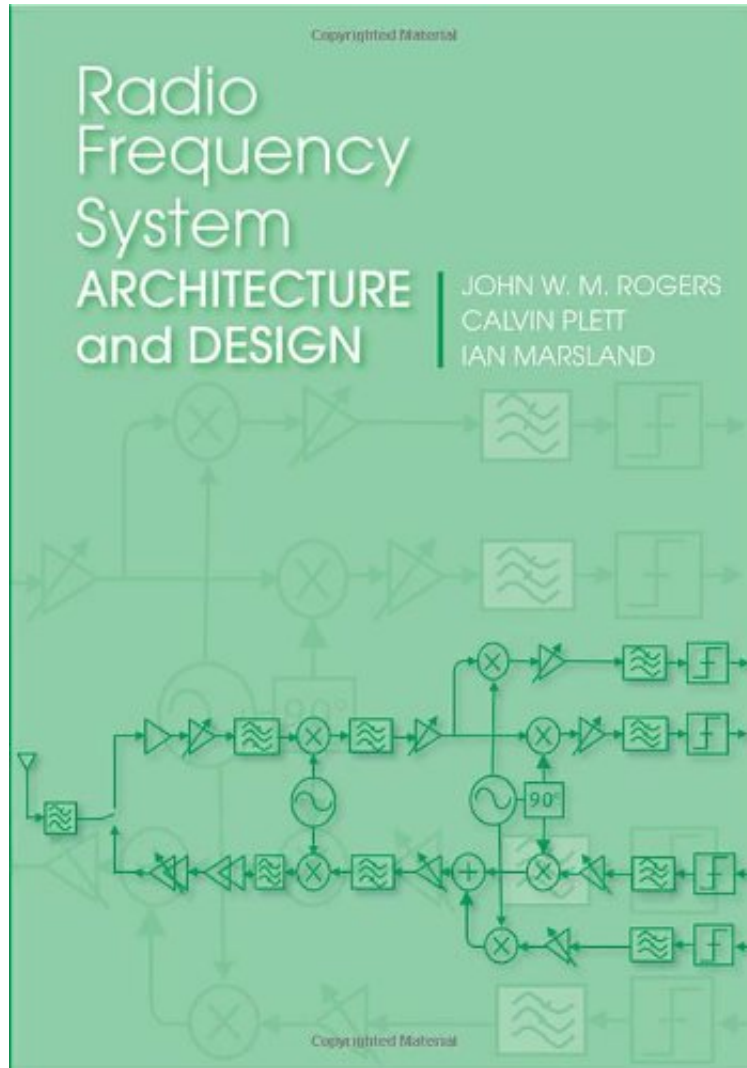


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# Radio Frequency System Architecture and Design

*John W M Rogers*

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**John W M Rogers : Radio Frequency System Architecture and Design** before purchasing it in order to gauge whether or not it would be worth my time, and all praised Radio Frequency System Architecture and Design:

0 of 1 people found the following review helpful. Four Stars By John K George Thank you! 3 of 7 people found the following review helpful. A FANTASTIC RADIO FREQUENCY SYSTEM RESOURCE!! By COSMIC TRAVELER Are you a professional electrical or computer engineer scientist in industry, academia, and government? If you are, then this book is for you. Authors John W. M. Rogers Calvin Plett and Ian Marsland, have done an outstanding job of writing a book that provides some insight into the design process for a radio front end at a higher level. Authors Rogers, Plett and Marsland, begin by reviewing basic concepts related to BBP, including many basic

performance metrics. Next, the authors investigate the basic concepts and performance metrics related to RFIC design. Then, they discuss various configurations of circuit building blocks that are used to form radios. In addition, the authors present some of the most important design considerations when specifying the requirements of all of the components in the system. They continue by showing you how to perform an analysis with a general  $N$  without details of how  $N$  is implemented; thus, analysis is applicable both to integer- $N$  and fractional- $N$  synthesizers. Finally, the authors sketch out some of the requirements for a radio to be used with a 20-MHz channel in the 5-GHz band. This most excellent book looks at a radio from a higher level in order to understand how all of the circuits operate together to provide an overall working system. Also, this great book focuses on the skills necessary to design a radio at the block level.

Communication devices such as smart phones, GPS systems, and Bluetooth, are now part of our daily lives more than ever before. This resource describes practical aspects of radio frequency communications systems design, bridging the gap between system-level design considerations and circuit-level design specifications.

About the Author John W. M. Rogers is an associate professor of engineering at Carleton University, Ottawa, Canada. He earned his Ph.D. in electrical engineering from Carleton University. Calvin Plett is a professor and chair member of the department of electronics at Carleton University, Ottawa, Canada. He earned his Ph.D. in electrical engineering from Carleton University. Ian Marsland is an associate professor in the department of systems and computer engineering at Carleton University, Ottawa, Canada. He earned his Ph.D. in electrical engineering from University of British Columbia.