



# Radio Frequency System Architecture and Design

By John W. M. Rogers, Calvin Plett, Ian Marsland

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Communication devices such as smart phones, GPS systems, and Bluetooth, are now part of our daily lives more than ever before. As our communication equipment becomes more sophisticated, so do the radios and other hardware required to enable that technology. Common radio architectures are required to make this technology work seamlessly.

This resource describes practical aspects of radio frequency communications systems design, bridging the gap between system-level design considerations and circuit-level design specifications. Industry experts not only provide detailed calculations and theory to determine block level specifications, but also discuss basic theory and operational concepts. This resource also includes extensive, up-to-date application examples.

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#### **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.

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