



# **Time Multiplexed Beam-Forming with Space-Frequency Transformation (Analog Circuits and Signal Processing)**

*Wei Deng, Reza Mahmoudi, Arthur H. M. van Roermund*

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This book describes a unique approach to smart receiver system design. It starts with the analysis of a very basic, single-path receiver structure, then using similar methods, extends the analysis to a more complicated multi-path receiver. Within the multi-path structure, two different types of phased –array architectures are discussed: Analog beam-forming, and digital beam-forming. The pros and cons are studied, and the gaps are identified. Whereas previous books in this area focus mainly on phased-array circuit implementations, this book fills a gap by providing a system-level approach and introduces new methods for developing smart systems.

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