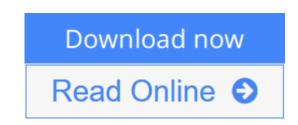


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A comprehensive design guide for your digital processing work with today's complex receiver systems. Brand new material brings the reader up-to-date with the latest information on wideband electronic warfare receivers, the ADC testing procedure, frequency channelization and decoding schemes, and the operation of monobit receivers. The book explains how to effectively evaluate ADCs, offers insight on building electronic warfare receivers, and describes zero crossing techniques that are critical to new receiver design. From fundamental concepts and procedures to recent technology advances in digital receivers, it offers practical solutions to all demanding wideband receiver problems. This hands-on reference is packed with 1,103 equations and 315 illustrations that support key topics covered throughout the book.

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#### Review

"The purpose of this book is to introduce digital signal processing approaches that are appplicable to wideband receiver designs. Its emphasis is on the techniques rather than theoretical discussions. It is written primarily for researchers in EW and communications areas and is presented at a senior or graduate school engineering level. Many examples are presented and a comprehensive bibliography is offered at the end of each chapter. Many computer programs, written in MATLAB, are included to help the reader understand the problems and design of a wideband receiver. This book will make a useful addition to the library of anyone interested in wideband receivers." ---Microwave Journal, July 2001

#### About the Author

James Tsui is an electronics engineer with the Air Force Research Laboratory at Wright-Patterson Air Force Base, Ohio. He earned his Ph.D. in electrical engineering from the University of Illinois. He is a fellow of the Air Force Research Laboratory and the IEEE.

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