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# Rf and Baseband Techniques for Software Defined Radio (Artech House Mobile Communications)

Peter Kenington

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**Peter Kenington : Rf and Baseband Techniques for Software Defined Radio (Artech House Mobile Communications)** before purchasing it in order to gage whether or not it would be worth my time, and all praised Rf and Baseband Techniques for Software Defined Radio (Artech House Mobile Communications):

11 of 11 people found the following review helpful. More than Software Defined Radio By Stuart D. Rumley It might seem extreme to rate this book 5 stars but I feel its justified. There are a number of text that deal with this subject but this one is complete, concise, and understandable. If you had to buy one new book dealing with RF telecom, this would

be it. Actually this probably should be your second or third book in your RF engineering library. You should already have Electronic Communications Systems by Wayne Tomaasi and Digital Communications by Bernard Sklar. Here are the things you'll like about this book.

1. Top quality layout, organization, printing, graphs, and well explained equations.
2. A modern review of past transmitter and receiver topologies (best explanation of the Weaver architecture I've seen). This will be relevant when you move to the sections on digital and software techniques.
3. Clear and well developed writing on new topologies such as polar modulation and precompensation.
4. Little surprises for your engineering tool kit such as how to add the ADC noise figure to your cascade analysis.
5. Good DSP coverage and worked examples, block diagrams, equations.

This authoritative book gives you new perspective on the RF and analog hardware and systems design aspects of software defined radio. It delves into the architecture of transmitters and receivers that make software-defined radio a reality. Covering both the practical aspects and underpinnings of these architectures, the book details all key RF and analog baseband components and sub-systems, from the converters that interface with Dsp's and Asics through to the duplexer feeding the antenna. It enables you to select the right technique for any application by providing alternatives for implementing the main system components. The book places emphasis on broadband and multi-band techniques, including broadband quadrature techniques, methods of dealing with the diplexer issue in transceivers, high-dynamic range and general coverage receiver techniques, and linearization applied to Lnas, receiver front-ends, transmitters and Pas. This practical resource looks at the cost factors of using particular techniques to ensure that you are creating communications devices that can compete successfully in the marketplace. Moreover, the book includes a survey of current technology that guides you in identifying future trends, so that current designs can be adapted to ever-changing technology and market demands.

About the Author Peter Kenington is director of advanced technology at Andrew Corporation,. A fellow of the IEE and a senior member of the IEEE, he earned both a B.E. in electrical and electronics engineering and a Ph.D. in communications engineering from the University of Bristol, United Kingdom. Dr. Kenington is also the author of High Linearity RF Amplifier Design (Artech House, 2000).