Ultra-wideband Radio Technology

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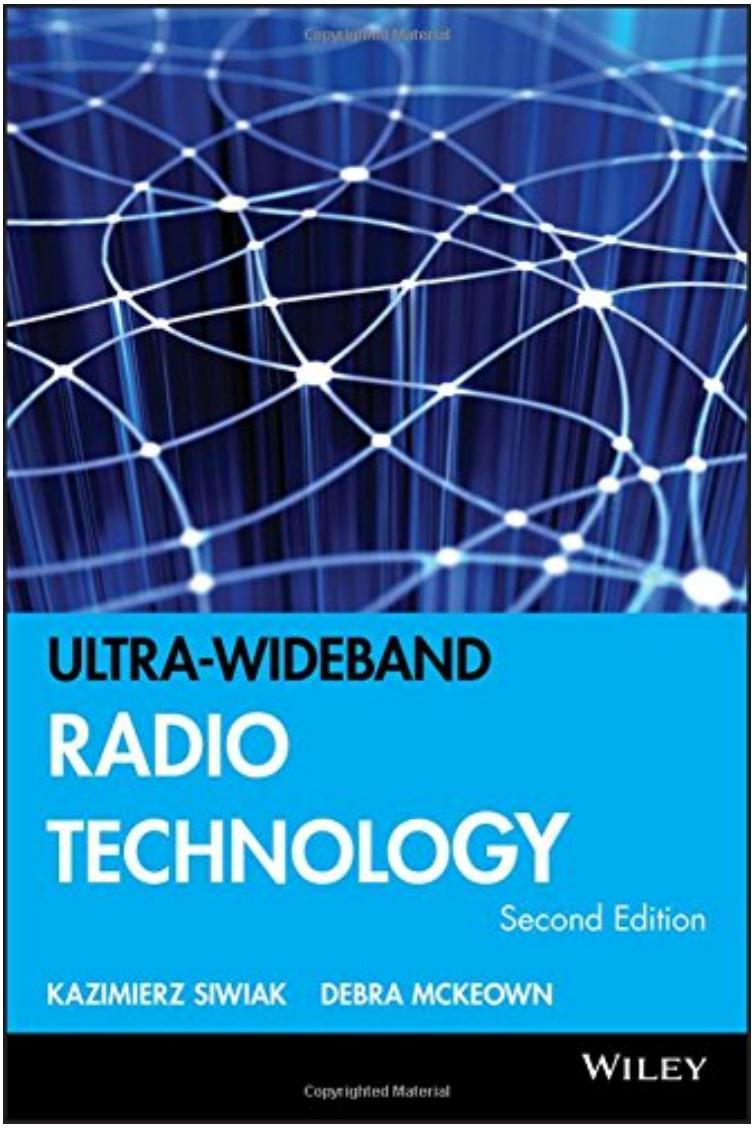

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Kazimierz Siwiak, Debra McKeown : Ultra-wideband Radio Technology before purchasing it in order to gage whether or not it would be worth my time, and all praised Ultra-wideband Radio Technology:

0 of 0 people found the following review helpful. Five StarsBy Radio ResearchThe item is very nice condition. Thank you.4 of 5 people found the following review helpful. A Comprehensive Yet Readable Intro to UWBBy Hans G. SchantzSiwiak and McKeown's "Ultra-wideband Radio Technology" offers a very readable and easy to understand introduction to UWB technology accesible to technologists, technical writers, and business people who may not have a

deep background in RF or communications theory. At the same time, the book covers all the essentials needed by RF engineers and other specialists who may be bringing their expertise to bear on UWB for the first time. It's a difficult act to walk the tightrope between a book accessible to a general audience and a book useful to technical readers, but this collaboration between an accomplished Florida based RF engineer and a talented Kenyan teacher presents a well balanced composition with considerable style and grace.The book presents a comprehensive overview of UWB, beginning with history, continuing through regulations and standards, presenting a simple overview of radiation and propagation, looking at reception of signals, covering system limits and capacity, and ending up with a good overview of applications. Appendices present excerpts from the FCC First Report and Order, the multipath model from 802.15.3a, additional technical details on free space transmission of pulses, and finally a glossary of acronyms and constants.I particularly liked the clever illustrations that brought an entertaining third world verve to what has traditionally been a western reserve. Look out for the "Delay Spread" and the "UWB Mask."Overall this is an outstanding technical reference easily accessible even by lay people with the rare merit of being both entertaining and amusing as well.2 of 4 people found the following review helpful. Good Introduction to UWBBy Hitesh N. BrahmbhattThis book is a good introduction to the technology. Any reader with interest in this technology or individuals trying to familiarize themselves with UWB so as to understand the business applications will be quite happy with this book. For engineers involved in the design of UWB systems, this book is somewhat lacking in details (I presume intentionally so, to make it available to general reader).However, if you are interested in Nuts and Bolts of the UWB system design,Understanding UWB Fundamentals --Prentice-Hallis more appropriate in my opinion.Hitesh

Ultra-wideband (UWB) has been among the most controversial technologies of modern times. Its applications seem endless, its capabilities miraculous and yet it is so poorly understood. In this volume, the authors combine talents to de-mystify ultra-wideband radio and explain it in language that is accessible to non-technologists as well as technologists. They contrast UWB with conventional radio technology so that fundamental, technically accurate information devoid of specific technical and analytical details is accessible for marketing managers, business developers, engineering managers, technology managers, potential investors, financial analysts, executive recruiters, technical writers, and technologists from other fields. The authors also include enough specific technical and engineering information about UWB, for the seasoned technologists, engineers, scientists and academicians who need to understand the topic at an entry level. Provides simple high level, conceptual discussions of UWB followed with more detailed, scientific, mathematical, engineering focused explanations Presents a global perspective by tracing UWB throughout the history of radio, providing a modern basis for the re-emergence of the technology and for the current regulatory and standards activities Features insights into the reasons why the technology developed the way it did Explains the key advantages of UWB, including its bandwidth, potential simplicity and huge system capacity Discusses the applications of UWB in terms of the unique properties and advantages of UWB Ultra-wideband Radio Technology will inform, educate and inspire!...

"this book is designed to give a basic overview of the subject of ultra-wideband technology." (Microwave Journal, December 2004) "offers a wealth of information" (Microwaves RF.com, October 22, 2004)From the Back CoverUltra-wideband (UWB) has been among the most controversial technologies of modern times. Its applications seem endless, its capabilities miraculous and yet it is so poorly understood. In this volume, the authors combine talents to de-mystify ultra-wideband radio and explain it in language that is accessible to non-technologists as well as technologists. They contrast UWB with conventional radio technology so that fundamental, technically accurate information devoid of specific technical and analytical details is accessible for marketing managers, business developers, engineering managers, technology managers, potential investors, financial analysts, executive recruiters, technical writers, and technologists from other fields. The authors also include enough specific technical and engineering information about UWB, for the seasoned technologists, engineers, scientists and academicians who need to understand the topic at an entry level. Provides simple high level, conceptual discussions of UWB followed with more detailed, scientific, mathematical, engineering focused explanations Presents a global perspective by tracing UWB throughout the history of radio, providing a modern basis for the re-emergence of the technology and for the current regulatory and standards activities Features insights into the reasons why the technology developed the way it did Explains the key advantages of UWB, including its bandwidth, potential simplicity and huge system capacity Discusses the applications of UWB in terms of the unique properties and advantages of UWB Ultra-wideband Radio Technology will inform, educate and inspire!