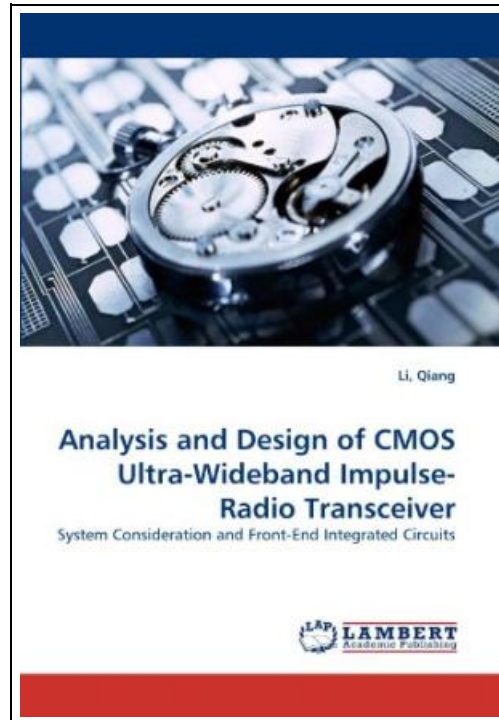


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LAP Lambert Acad. Publ. Jun 2010, 2010. Taschenbuch. Condition: Neu. Neuware - The ultra-wideband (UWB) impulse-radio technology has unique features including high data-rate as well as low power consumption with ranging and localization capabilities. An UWB front-end, however, has to accommodate design challenges resulting from the exceptional wide bandwidth of several GHz. This book discusses the implementation issues of the UWB impulse-radio transceiver front-end, including the performance analysis of practical systems and the design of radio-frequency integrated circuits for transceiver front-ends. A general framework for performance evaluation of practical impulse radio system is proposed and demonstrated in scenarios of high-speed data communications as well as low-data-rate wireless body-area networks. An inductorless low-noise amplifier is designed with syncretic adoption of thermal noise canceling, capacitor peaking, and current reuse. The CMOS transmit/receive switch design with highest reported bandwidth and power handling capability are discussed with customized transistor layout and triple-well resistive body-floating techniques. The prototypes have been demonstrated in state-of-the-art 130nm CMOS technology. 192 pp. Englisch.



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