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SI/SIGE HBT ICs FOR IMPULSE ULTRA -WIDEBAND (I -UWB) COMMUNICATIONS AND SENSING



Cuvillier Verlag Apr 2009, 2009. Taschenbuch. Condition: Neu. Neuware - This thesis describes the development of innovative integrated circuits (ICs) for Impulse Ultra-Wideband (I-UWB) systems with a cost-efficient, bipolar-only Si/SiGe heterojunction bipolar transistor (HBT) foundry process. A complete I-UWB chipset consisting of pulse generators, low-noise amplifiers and an analog correlator is presented. A fully monolithic receiver MMIC with full FCC bandwidth (3.1-to-10.6 GHz), pulse repetition rates up to 900 MHz (IF bandwidth limited) and - 93 dBm minimum discernible signal...

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- Authored by Jochen Dederer
- Released at 2009



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