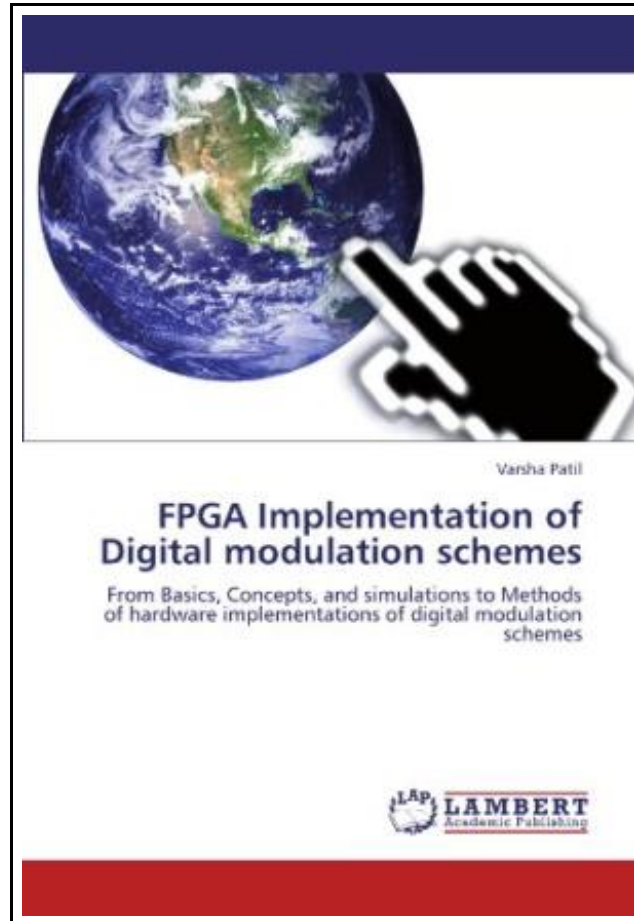


FPGA Implementation of Digital modulation schemes



Filesize: 5.65 MB

Reviews

Extensive manual! Its such a great read. It really is loaded with knowledge and wisdom You wont really feel monotony at at any time of your time (that's what catalogs are for regarding if you ask me).

(Myrl Hintz)

FPGA IMPLEMENTATION OF DIGITAL MODULATION SCHEMES



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LAP Lambert Acad. Publ. Okt 2011, 2011. Taschenbuch. Condition: Neu. Neuware - The choice of digital modulation scheme significantly affects the characteristics and resulting physical realization of communication system. This work describes the Concepts, and simulations to Methods of hardware implementations of all the main digital modulation schemes used such as ASK, FSK, BPSK, QPSK and OFDM. This work compares the performance and tradeoffs of popular digital modulation systems. The work presents combination of high-level modeling environments and automatic code generation with hardware/software co-design. It elaborates the simulation to synthesis of digital modulation schemes using the MATLAB® Simulink program and its implementation in a XILINX s Spartan-III kit using system generator. The specific digital design from analysis over creating the simulation model to mapping the modulator to the FPGA is discussed. Test benches created for both traditional and block diagram oriented Simulink system generator combination approaches. The results indicate that synthesis on FPGA hardware can be generated automatically reducing the design time from days to minutes. The digital modulation schemes are simulated and synthesized by both traditional and method described in book 100 pp. Englisch.



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