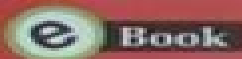


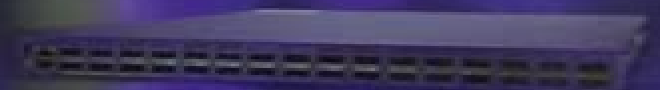
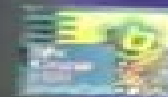
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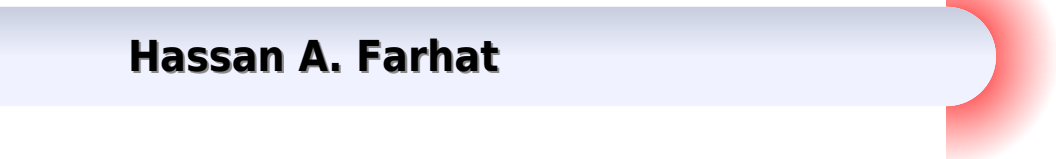
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Digital Electronic Circuits Shuqin Lou,Chunling Yang,2019-05-20 This book presents three aspects of digital circuits digital principles digital electronics and digital design The modern design methods of using electronic design automation EDA are also introduced including the hardware description language HDL designs with programmable logic devices and large scale integrated circuit LSI The applications of digital devices and integrated circuits are discussed in detail as well

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Digital Signal Processing in Audio and Acoustical Engineering Francis F. Li, Trevor J. Cox, 2019-04-02 Starting with essential maths fundamentals of signals and systems and classical concepts of DSP, this book presents from an application-oriented perspective modern concepts and methods of DSP including machine learning for audio acoustics and engineering. Content highlights include but are not limited to room acoustic parameter measurements, filter design, codecs, machine learning for audio pattern recognition, and machine audition, spatial audio array technologies, and hearing aids. Some research outcomes are fed into the book as worked examples. As a research-informed text, the book attempts to present DSP and machine learning from a new and more relevant angle to acousticians and audio engineers. Some MATLAB codes or frameworks of algorithms are given as downloads available on the CRC Press website. Suggested exploration and mini-project ideas are given for proof-of-concept type of exercises and directions for further study and investigation. The book is intended for researchers, professionals, and senior-year students in the field of audio acoustics.

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