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[The Audiophile's Project Sourcebook](#) Slone,2001-09

Digital Signal Processing in Power Electronics Control Circuits Krzysztof Sozański,2013-07-03 Many digital control circuits in current literature are described using analog transmittance This may not always be acceptable especially if the sampling frequency and power transistor switching frequencies are close to the band of interest Therefore a digital circuit is considered as a digital controller rather than an analog circuit This helps to avoid errors and instability in high frequency components Digital Signal Processing in Power Electronics Control Circuits

covers problems concerning the design and realization of digital control algorithms for power electronics circuits using digital signal processing DSP methods This book bridges the gap between power electronics and DSP The following realizations of digital control circuits are considered digital signal processors microprocessors microcontrollers programmable digital circuits Discussed in this book is signal processing starting from analog signal acquisition through its conversion to digital form methods of its filtration and separation and ending with pulse control of output power transistors The book is focused on two applications for the considered methods of digital signal processing an active power filter and a digital class D power amplifier The major benefit to readers is the acquisition of specific knowledge concerning discussions on the processing of signals from voltage or current sensors using a digital signal processor and to the signals controlling the output inverter transistors Included are some Matlab examples for illustration of the considered problems

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Audio Power Amplifier Design Handbook Douglas Self, 2006-07-04 First Published in 2006 Routledge is an imprint of Taylor Francis an informa company Designing Audio Power Amplifiers Bob Cordell, 2010-09-22 Master the art of audio power amplifier design This comprehensive book on audio power amplifier design will appeal to members of the professional audio engineering community as well as the hobbyist Designing Audio Power Amplifiers begins with power amplifier design basics that a novice can understand and moves all the way through to in depth design techniques for the very sophisticated audiophile and professional audio power amplifier designer This is the single best source of knowledge for anyone who wants

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