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Sozański, 2017-05-10 This revised and extended second edition covers problems concerning the design and realization of digital control algorithms for power electronics circuits using digital signal processing DSP methods This book discusses signal processing starting from analog signal acquisition through conversion to digital form methods of 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 a three phase shunt active power filter and a digital class D audio power amplifier The book bridges the gap between power electronics and digital signal processing Many control algorithms and circuits for power electronics in the current literature are described using analog transmittances This may not always be acceptable especially if half of the sampling frequencies and half of the power transistor switching frequencies are close to the band of interest Therefore in this book a digital circuit is treated as a digital circuit with its own peculiar characteristics rather than an analog circuit This helps to avoid errors and instability This edition includes a new chapter dealing with selected problems of simulation of power electronics systems together with digital control circuits The book includes numerous examples using MATLAB and PSIM programs **Digital Signal Processing Handbook on CD-ROM VIJAY**

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The British National Bibliography Arthur James Wells, 2002 Handbook for Digital Signal Processing Sanjit K. Mitra, James F. Kaiser, 1993-07-26 A reference work on all aspects and applications of digital signal processing which covers the design of hardware and software systems and the principles and applications of video processing communications sonar and radar *AES*; , **Digital Signal Processing Design** Andrew Bateman, Warren Yates, 1988 This book is aimed primarily at the engineer or designer who is familiar with the theory and practice of analog system design and requires an introduction to DSP technology It is also intended as a general handbook of processing algorithms and circuit design techniques for the experienced engineer forming the basis for more advanced system development The material is presented in the form of specific algorithms and explanatory material on hardware implementation so that the reader can tackle a section of the book and immediately try out a related design The book has been written so that a progressive development of understanding of the theoretical background to DSP can be established with sufficient theory to allow the reader to modify extend and invent algorithms without running foul of fundamental theoretical constraints Extensive references are provided to enable theoretical progress beyond the scope of the text The book is in three sections The first provides the context for the remainder outlining the fundamental differences in approach between analog and digital signal processing design and giving a brief description of the architecture instruction sets and performance of many typical DSP chips The middle section which constitutes the bulk of the book covers general application areas including filtering spectral analysis communications systems speech processing providing in effect a library of DSP algorithms accompanied in many cases by implementation examples based upon the Texas Instruments TMS 320 series of DSP devices The final section is devoted to hardware design

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