



# Digital Signal Processing: Applications to Communications and Algebraic Coding Theories

*Salvatore Morgera*

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**Digital Signal Processing: Applications to Communications and Algebraic Coding Theories** Salvatore Morgera

Digital Signal Processing: Applications to Communications and Algebraic Coding Theories discusses the design of computationally efficient digital signal processing algorithms over finite fields and the relation of these algorithms to algebraic error-correcting codes.

The book provides chapters that cover such topics as signal processing techniques employed for modeling, synthesis, and analysis; systems of bilinear forms; efficient finite field algorithms; the design and study of long length cyclic convolutions and some preliminary results on their relation to linear codes; the study of the algebraic structure of the class of linear codes obtained from bilinear cyclic and aperiodic convolution algorithms over the finite field of interest; and the concept of a generalized hybrid Automatic- Repeat-Request (ARQ) scheme for adaptive error control in digital communication systems.

Engineers, mathematicians, and computer scientists will find the text invaluable.

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