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Wavelets and Filter Banks; 7.4 Biorthogonal Wavelet Bases; 7.5 Wavelet Bases on an Interval; 7.6 Multiscale Interpolations; 7.7 Separable Wavelet Bases; 7.8 Problems; CHAPTER VIII. WAVELET PACKET AND LOCAL COSINE BASES; 8.1 Wavelet Packets; 8.2 Image Wavelet Packets; 8.3 Block Transforms; 8.4 Lapped Orthogonal Transforms; 8.5 Local Cosine Trees; 8.6 Problems; CHAPTER IX. AN APPROXIMATION TOUR; 9.1 Linear Approximations; 9.2 Non-Linear Approximations; 9.3 Image Approximations with Wavelets; 9.4 Adaptive Basis Selection 9.5 Approximations with Pursuits 9.6 Problems; CHAPTER X. ESTIMATIONS ARE APPROXIMATIONS; 10.1 Bayes Versus Minimax; 10.2 Diagonal Estimation in a Basis; 10.3 Minimax Optimality; 10.4 Restoration; 10.5 Coherent Estimation; 10.6 Spectrum Estimation; 10.7 Problems; CHAPTER XI. TRANSFORM CODING; 11.1 Signal Compression; 11.2 Distortion Rate of Quantization; 11.3 High Bit Rate Compression; 11.4 Image Compression; 11.5 Video Signals; 11.6 Problems; APPENDIX A. MATHEMATICAL COMPLEMENTS; A.1 Functions and Integration; A.2 Banach and Hilbert Spaces; A.3 Bases of Hilbert Spaces; A.4 Linear Operators A.5 Separable Spaces and Bases A.6 Random Vectors and Covariance Operators; A.7 Diracs; APPENDIX B. SOFTWARE TOOLBOXES; B.1 Wavelas; B.2 Lastwave; B.3 Freeware Wavelet Toolboxes; Bibliography; Index

Sommario/riassunto

This book is intended to serve as an invaluable reference for anyone concerned with the application of wavelets to signal processing. It has evolved from material used to teach "wavelet signal processing" courses in electrical engineering departments at Massachusetts Institute of Technology and Tel Aviv University, as well as applied mathematics departments at the Courant Institute of New York University and Ecole Polytechnique in Paris. Key Features* Provides a broad perspective on the principles and applications of transient signal processing with wavelets* Emphasizes int

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