

## Contents

### Part I. Wavelet Theory and Applications

Extensions of no-go theorems to many signal systems RADU BALAN	3
Wavelet sets in $\mathbb{R}^n$ . II XINGDE DAI, DAVID R. LARSON, AND DARRIN M. SPEEGLE	15
An analogue of Cohen's condition for nonuniform multiresolution analyses JEAN-PIERRE GABARDO AND M. ZUHAIR NASHED	41
Positive estimation with wavelets GILBERT G. WALTER AND XIAOPING SHEN	63
A class of quasi-orthogonal wavelet bases RICHARD A. ZALIK	81

### Part II. Multiwavelet Theory and Applications

Characterization and parameterization of multiwavelet bases AKRAM ALDROUBI AND MANOS PAPADAKIS	97
Nonhomogeneous refinement equations THOMAS B. DINSENBACHER AND DOUGLAS P. HARDIN	117
Multi-scaling function interpolation and approximation ENBING LIN AND ZHENGCHU XIAO	129
A note on construction of biorthogonal multi-scaling functions VASILY STRELA	149
Orthonormal matrix valued wavelets and matrix Karhunen-Loève expansion XIANG-GEN XIA	159