
Contents

Preface	vi
Contributors	vii
1 Signals and Systems <i>Alexander D. Poularikas</i>	1
2 Fourier Transforms <i>Kenneth B. Howell</i>	95
3 Sine and Cosine Transforms <i>Pat Yip</i>	227
4 The Hartley Transform <i>Kraig J. Olejniczak</i>	281
5 Laplace Transforms <i>Samuel Seely</i>	331
6 The Z-Transform <i>Alexander D. Poularikas</i>	387
7 Hilbert Transforms <i>Stefan L. Hahn</i>	463
8 Radon and Abel Transforms <i>Stanley R. Deans</i>	631
9 The Hankel Transform <i>Robert Piessens</i>	719
10 Wavelet Transform <i>Yunlong Sheng</i>	747
11 The Mellin Transform <i>Jacqueline Bertrand, Pierre Bertrand, and Jean-Philippe Ovarlez</i>	829
12 Mixed Time-Frequency Signal Transformations <i>G. Fay Boudreaux-Bartels</i>	887
Appendices <i>Alexander D. Poularikas</i>	963
Index	1099