

Contents

1	Cryptography-Based Chaos via Geometric Undersampling of Ring-Coupled Attractors	1
	René Lozi	
2	Soft Computing Techniques and Their Applications	31
	D.K. Chaturvedi	
3	Integral Geometry and Mathematical Problems of Image Reconstruction	41
	Gaik Ambartsoumian	
4	Microlocal Analysis of Some Synthetic Aperture Radar Imaging Problems	55
	Venkateswaran P. Krishnan	
5	Cubic Spline Approximation for Two-Dimensional Nonlinear Elliptic Boundary Value Problems	77
	R.K. Mohanty	
6	Pricing of Path-Dependent European-Type Options Using Monte Carlo Simulation	99
	Siddhartha P. Chakrabarty	
7	On the Finite Element Approximation of the Impulse Control Quasivariational Inequality	107
	Messaoud Boulbrachene	
8	The Periodic Petrol Station Replenishment Problem: An Overview	127
	Chefi Triki and Nasr Al-Hinai	
9	Nanotechnology and Mathematics “Study of Non-linear Dynamic Vibration in Single Walled Carbon Nanotubes (SWNTs)”	137
	Mushahid Husain and Ayub Khan	

10	Generalized Monotone Mappings with Applications	143
	R. Ahmad, A.H. Siddiqi, M. Dilshad and M. Rahaman	
11	Wavelet and Fractal Methods with Environmental Applications	173
	Bhardwaj Rashmi	
12	A Novel Algorithm by Context Modeling of Medical Image Compression with Discrete Wavelet Transform	197
	M.A. Ansari	
13	Srinivasa Ramanujan: A Creative Genius	229
	K. Srinivasa Rao	
14	Estimation of Longitudinal Diffusivity in Laminar/Turbulent Flow Through Curved Channels with Absorbing Boundaries Using Method of Moments	235
	Sushil Kumar and Girija Jayaraman	
15	Recent Advances in Compressive Sensing	247
	Noore Zahra	
16	Emergence of Shearlets and Its Applications	257
	Ruchira Aneja	
17	Application of Wavelets in Numerical Evaluation of Hankel Transform Arising in Seismology.	285
	Nagma Irfan and A.H. Siddiqi	



<http://www.springer.com/978-981-287-971-4>

Mathematical Models, Methods and Applications

Siddiqi, A.H.; Manchanda, P.; Bhardwaj, R. (Eds.)

2015, XIX, 298 p. 103 illus., 60 illus. in color., Hardcover

ISBN: 978-981-287-971-4