

1. Record Nr.	UNINA9910300254103321
Titolo	Mathematical Models, Methods and Applications / / edited by Abul Hasan Siddiqi, Pammy Manchanda, Rashmi Bhardwaj
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2015
ISBN	981-287-973-0
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (309 p.)
Collana	Industrial and Applied Mathematics, , 2364-6837
Disciplina	511.8
Soggetti	Mathematical models Algorithms Mathematical optimization Geometry Mathematical Modeling and Industrial Mathematics Mathematics of Algorithmic Complexity Optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"The Indian Society of Industrial and Applied Mathematics (ISIAM) was established during a national symposium on differential equations in September 1990 at Aligarh Muslim University."
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Cryptography Based Chaos via Geometric Undersampling of Ring-Coupled Attractors -- Soft Computing Techniques and Their Applications -- Integral Geometry and Mathematical Problems of Image Reconstruction -- Microlocal Analysis of Some Synthetic Aperture Radar Imaging Problems -- Cubic Spline Approximation for Two Dimensional Non-linear Elliptic Boundary Value Problems -- Pricing of Path Dependent European Type Options Using Monte-Carlo Simulation -- On the Finite Element Approximation of the Impulse Control Quasivariational Inequality -- The Periodic Petrol Station Replenishment Problem: An Overview -- Nanotechnology and Mathematics: Study of Non-linear Dynamic Vibration in Single Walled Carbon Nanotubes (SWNTs) -- Generalized Monotone Mapping with Applications -- Wavelet and Fractal Methods with Environmental Applications -- A Novel Algorithm by Context Modeling of Medical Image Compression with Discrete Wavelet Transform -- Srinivasa Ramanujan: A Creative

Genius -- Estimation of Longitudinal Diffusivity in Laminar/Turbulent flow through curved channels with absorbing boundaries using Method of Moments -- Recent Advances in Compressive Sensing -- Emergence of Shearlets and its Applications -- Application of CAS wavelets in Numerical Evaluation of Hankel Transforms Arising in Seismology.

Sommario/riassunto

The present volume contains invited talks of 11th biennial conference on “Emerging Mathematical Methods, Models and Algorithms for Science and Technology”. The main message of the book is that mathematics has a great potential to analyse and understand the challenging problems of nanotechnology, biotechnology, medical science, oil industry and financial technology. The book highlights all the features and main theme discussed in the conference. All contributing authors are eminent academicians, scientists, researchers and scholars in their respective fields, hailing from around the world.
