And Numerical Simulation Communications In Nonlinear Science

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And Numerical Simulation Communications In Nonlinear Science:

Communications in Nonlinear Science & Numerical Simulation ,2002 **Communication and Computing Systems** B.M.K. Prasad,Karan Singh,Shyam S. Pandey,Richard O'Kennedy,2019-10-22 The International Conference on Communication and Computing Systems ICCCS 2018 provides a high level international forum for researchers and recent advances in the field of electronic devices computing big data analytics cyber security quantum computing biocomputing telecommunication etc The aim of the conference was to bridge the gap between the technological advancements in the industry and the academic research **Mathematics—Advances in Research and Application: 2012 Edition** ,2012-12-26 Mathematics Advances in Research and Application 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Mathematics The editors have built Mathematics Advances in Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Mathematics in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Mathematics Advances in Research and Application 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com **Wavelet Methods for Solving Partial Differential Equations and Fractional Differential Equations** Santanu Saha Ray,Arun Kumar Gupta,2018-01-12 The main focus of the book is to implement wavelet based transform methods for solving problems of fractional order partial differential equations arising in modelling real physical phenomena It explores analytical and numerical approximate solution obtained by wavelet methods for both classical and fractional order partial differential equations **Encryption and Decryption Algorithms for Plain Text and Images using Fractional Calculus** Rafael Martínez-Guerra,Juan Javier Montesinos-García,Juan Pablo Flores-Flores,2023-01-17 This book offers an alternative for encrypting and decrypting messages using objects called integer and fractional order estimators or observers by means of security codes The authors first establish the class of observers capable of carrying out this work Then the type of observers to treat either the integer or fractional order type and their main characteristics is mentioned The book also presents an essential property of some systems such as Liouville which is vital for the encryption and decryption of messages in integer and fractional order nonlinear systems by using the synchronization property of chaotic systems Finally it addresses some logistic maps such as Mandelbrot sets including Julia and fractal sets taking advantage of their characteristics to encrypt or recover messages **Computational Analysis of Heat Transfer in Fluids and Solids** Oluwole Daniel Makinde,2018-09-20 Special topic volume with invited peer reviewed papers only **High Performance Structures and Materials Engineering** Mark Zhou,2011-03-30 Selected peer reviewed

paper from 2011 First International Conference on High Performance Structures and Materials Engineering ICHPSM 2011 in May 5 6 Beijing China 2011 **Fractional Order Control and Synchronization of Chaotic Systems** Ahmad Taher Azar,Sundarapandian Vaidyanathan,Adel Ouannas,2017-02-27 The book reports on the latest advances in and applications of fractional order control and synchronization of chaotic systems explaining the concepts involved in a clear matter of fact style It consists of 30 original contributions written by eminent scientists and active researchers in the field that address theories methods and applications in a number of research areas related to fractional order control and synchronization of chaotic systems such as fractional chaotic systems hyperchaotic systems complex systems fractional order discrete chaotic systems chaos control chaos synchronization jerk circuits fractional chaotic systems with hidden attractors neural network fuzzy logic controllers behavioral modeling robust and adaptive control sliding mode control different types of synchronization circuit realization of chaotic systems etc In addition to providing readers extensive information on chaos fundamentals fractional calculus fractional differential equations fractional control and stability the book also discusses key applications of fractional order chaotic systems as well as multidisciplinary solutions developed via control modeling As such it offers the perfect reference guide for graduate students researchers and practitioners in the areas of fractional order control systems and fractional order chaotic systems Methods of Mathematical Modelling Harendra Singh,Devendra Kumar,Dumitru Baleanu,2019-09-17 This book features original research articles on the topic of mathematical modelling and fractional differential equations The contributions written by leading researchers in the field consist of chapters on classical and modern dynamical systems modelled by fractional differential equations in physics engineering signal processing fluid mechanics and bioengineering manufacturing systems engineering and project management The book offers theory and practical applications for the solutions of real life problems and will be of interest to graduate level students educators researchers and scientists interested in mathematical modelling and its diverse applications Features Presents several recent developments in the theory and applications of fractional calculus Includes chapters on different analytical and numerical methods dedicated to several mathematical equations Develops methods for the mathematical models which are governed by fractional differential equations Provides methods for models in physics engineering signal processing fluid mechanics and bioengineering Discusses real world problems theory and applications **Fulltext Sources Online** ,2007 **Applied Mechanics and Mechanical Engineering II** Hong Hua Tan,2011-11-16 Selected peer reviewed papers from the 2011 2nd International Conference on Applied Mechanics and Mechanical Engineering ICAMME 2011 October 8 9 2011 Sanya China **Current Serials Received** British Library. Document Supply Centre,2006 *Mechanical, Materials and Manufacturing Engineering* Hong Hua Tan,2011-07-04 Selected peer reviewed papers from the 2011 International Conference on Mechanical Materials and Manufacturing Engineering ICMMME 2011 in June 20 22 2011 Nanchang China **Mathematical Models in Engineering, Biology and Medicine** Alberto Cabada,Eduardo Liz,Juan J. Nieto,2009-05-29

The Conference was focused in the Qualitative Theory of Differential Equations and its applications in a broad sense including Boundary Value Problems Existence Multiplicity Uniqueness Stability and Bifurcation Theory Different types of Differential Equations were treated namely Ordinary Partial and Functional Equations Applications were presented in different areas as Populations Dynamics and Medical Models **Vibration, Structural Engineering and Measurement II** Chun Liang Zhang,Paul P. Lin,2012-11-29 Selected peer reviewed papers from the 2012 International Conference on Vibration Structural Engineering and Measurement ICVSEM 2012 October 19 21 2012 Shanghai China **Modeling and Dynamics of Micromechanical Oscillators** Tuhin Sahai,2008 **Annals of Differential Equations** ,1999 Evaluation of Moose Habitats and Forest Reclamation in Estonian Oil Shale Mining Areas Aarne Luud,2006 Gale Directory of Publications ,2006 *Serials in the British Library* ,2001

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