

Diffusion Equation

$$(0 =) \frac{\partial v(\mathbf{x})}{\partial t} = D \Delta v(\mathbf{x}) + \rho(\mathbf{x})$$

$$\rho(\mathbf{x}) = \frac{1}{T_{MC}} \sum_i^{N_{TH}} \delta^3(\mathbf{x} - \mathbf{x}_i)$$

Boundary Condition: $v(\mathbf{x}_B) = 0$

Arrival # of particles per unit area, during T_{MC} is:

$$F_{Th} = T_{MC} D \frac{\partial}{\partial n} v(\mathbf{x}_B) \quad \left(\frac{\partial}{\partial n} \equiv \mathbf{n} \cdot \text{grad} \right)$$

Approximate Solution Of The Non Linear Diffusion Equation

J Ma



Approximate Solution Of The Non Linear Diffusion Equation:

Nonlinear Dynamical Control, Computer Simulation And Optimization Systems: Theory And Applications

Dumitru Baleanu, Necati Ozdemir, Yeliz Karaca, Mukund N Janardhanan, Firat Evirgen, Ibrahim Kucukkoc, 2025-11-25 This book compiles a curated selection of papers presented at the Third International Conference on Applied Mathematics in Engineering ICAME 24 The content is dedicated to key areas within the realm of applied mathematics including optimization control artificial intelligence machine learning and operations research The primary aim of this volume is to showcase both theoretical advancements and methodological innovations as well as research and practice alongside their practical applications across various engineering domains and computer science A special emphasis is placed on the development of cutting edge techniques designed to address complex real world engineering challenges Through this collection readers will gain useful insights into the latest research and trends shaping the future of applied mathematics in engineering By presenting a diverse array of studies the book highlights the interdisciplinary nature of modern engineering problems and the necessity for robust mathematical tools to solve them

Mathematical Methods in Engineering

Kenan Taş, Dumitru Baleanu, J. A. Tenreiro Machado, 2018-08-21 This book collects chapters dealing with some of the theoretical aspects needed to properly discuss the dynamics of complex engineering systems The book illustrates advanced theoretical development and new techniques designed to better solve problems within the nonlinear dynamical systems Topics covered in this volume include advances on fixed point results on partial metric spaces localization of the spectral expansions associated with the partial differential operators irregularity in graphs and inverse problems Hyers Ulam and Hyers Ulam Rassias stability for integro differential equations fixed point results for mixed multivalued mappings of Feng Liu type on Mb metric spaces and the limit q Bernstein operators analytical investigation on the fractional diffusion absorption equation

Numerical Methods and Applications Ivan Georgiev, Maria Datcheva, Krassimir Georgiev, Geno Nikolov, 2023-05-15 This book constitutes the thoroughly refereed post conference proceedings of the 10th International Conference on Numerical Methods and Applications NMA 2022 held in Borovets Bulgaria in August 2022 The 30 revised regular papers presented were carefully reviewed and selected from 38 submissions for inclusion in this book The papers are organized in the following topical sections numerical search and optimization problem driven numerical method motivation and application numerical methods for fractional diffusion problems orthogonal polynomials and numerical quadratures and Monte Carlo and Quasi Monte Carlo methods

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

Frontiers in Fractional Calculus Sachin Bhalekar,2018-03-21 This book brings together eleven topics on different aspects of fractional calculus in a single volume It provides readers the basic knowledge of fractional calculus and introduces advanced topics and applications The information in the book is presented in four parts 1 Fractional Diffusion Equations i solutions of fractional diffusion equations using wavelet methods ii the maximum principle for time fractional diffusion equations iii nonlinear sub diffusion equations 2 Mathematical Analysis i shifted Jacobi polynomials for solving and identifying coupled fractional delay differential equations ii the monotone iteration principle in the theory of Hadamard fractional delay differential equations iii dynamics of fractional order modified Bhalekar Gejji System iv Grunwald Letnikov derivatives 3 Computational Techniques GPU computing of special mathematical functions used in fractional calculus 4 Reviews i the popular iterative method NIM ii fractional derivative with non singular kernels iii some open problems in fractional order nonlinear system This is a useful reference for researchers and graduate level mathematics students seeking knowledge about of fractional calculus and applied mathematics

Advances in Mathematical Modelling, Applied Analysis and Computation Jagdev Singh,George A. Anastassiou,Dumitru Baleanu,Carlo Cattani,Devendra Kumar,2022-10-13 This book is a valuable source for graduate students and researchers and provides a comprehensive introduction to recent theories and applications of mathematical modeling and numerical simulation It includes selected peer reviewed papers presented at the 4th International Conference on Mathematical Modelling Applied Analysis and Computation ICMMAAC 2021 held at JECRC University Jaipur India during August 5 7 2021 The book is focused on mathematical modeling of various problems arising in science and engineering and new efficient numerical approaches for solving linear nonlinear problems and rigorous mathematical theories which can be used to analyze different kinds of mathematical models Applications of mathematical methods in physics chemistry biology mechanical engineering civil engineering computer science social science and finance are presented

Finite Extinction Time for Non-Linear Absorption-Diffusion Equations Jacob B. Goldberg,2002-09 In this thesis we develop a numerical method in order to approximate the solutions of one dimensional non linear absorption diffusion equations We test our method for accuracy against a linear diffusion equation with a solution that can be written in closed form We then test various types of diffusion and absorption terms to determine which ones produce extinction in finite time We also develop a numerical method to computationally solve diffusion free equations We compare the numerical solutions of the one dimensional non

linear absorption diffusion equation and the diffusion free equation and we find that for the cases tested the numerical absorption diffusion solutions are always less than the numerical diffusion free solutions Furthermore we find this is true for the cases tested when there is finite and infinite extinction time We also look at the open problem where we have slow diffusion and weak absorption but their combined effect is strong Our results provide some insight into the answer of this problem

Modeling and Analysis of Diffusive and Advective Processes in Geosciences William Edward Fitzgibbon, Mary Fanett Wheeler, 1992-01-01 Not a collection of proceedings but 11 papers on topics that emerged from a September 1989 conference in Houston on mathematical and computational issues in geophysical fluid and solid mechanics The discussions include a semi linear heat equation subject to the specification of energy an analytic Scientific and Technical Aerospace Reports ,1968

Generalized Fractional Order Differential Equations Arising in Physical Models Santanu Saha Ray, Subhadarshan Sahoo, 2018-11-13 This book analyzes the various semi analytical and analytical methods for finding approximate and exact solutions of fractional order partial differential equations It explores approximate and exact solutions obtained by various analytical methods for fractional order partial differential equations arising in physical models

Kinetics of Phase Transformations: Volume 205 Michael O. Thompson, Michael J. Aziz, G. Brian Stephenson, 1992-02-28 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

Lectures on Nonlinear-differential-equation Models in Biology James Dickson Murray, 1977

Nonlinear System Analysis and Synthesis: Techniques and applications J. Karl Hedrick, Henry Martyn Paynter, 1980

Extracta Mathematicae ,1994

Comprehensive Dissertation Index, 1861-1972:

Mathematics and statistics Xerox University Microfilms, 1973

Computer Simulation, 1951-1976 Per A. Holst, 1979

A Closer Look of Nonlinear Reaction-Diffusion Equations L. Rajendran, R. Swaminathan, 2020-08-26 By using mathematical models to describe the physical biological or chemical phenomena one of the most common results is either a differential equation or a system of differential equations together with the correct boundary and initial conditions The determination and interpretation of their solution are at the base of applied mathematics Hence the analytical and numerical study of the differential equation is very much essential for all theoretical and experimental researchers and this book helps to develop skills in this area Recently non linear differential equations were widely used to model many of the interesting and relevant phenomena found in many fields of science and technology on a mathematical basis This problem is to inspire them in various fields such as economics medical biology plasma physics particle physics differential geometry engineering signal processing electrochemistry and materials science This book contains seven chapters and practical applications to the problems of the real world The first chapter is specifically for those with limited mathematical background Chapter one presents the introduction of non linear reaction diffusion systems various boundary conditions and examples Real life application of non linear reaction diffusion in different fields with some important non linear equations is also discussed In

Chapter 2 mathematical preliminaries and various advanced methods of solving non linear differential equations such as Homotopy perturbation method variational iteration method exponential function method etc are described with examples Steady and non steady state reaction diffusion equations in the plane sheet chapter 3 cylinder chapter 4 and spherical chapter 5 are analyzed The analytical results published by various researchers in referred journals during 2007 2020 have been addressed in these chapters 4 to 6 and this leads to conclusions and recommendations on what approaches to use on non linear reaction diffusion equations Convection diffusion problems arise very often in applied sciences and engineering Non linear convection diffusion equations and corresponding analytical solutions in various fields of chemical sciences are discussed in chapter6 Numerical methods are used to provide approximate results for the non linear problems and their importance is felt when it is impossible or difficult to solve a given problem analytically Chapter 7 identifies some of the numerical methods for finding solutions to non linear differential equations **Mathematical Reviews** ,2008

Computer Modeling in Engineering & Sciences ,2009 *Science Abstracts* ,1930

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