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Nonlinear Differential Equations Of Monotone

“The present treatise completes it, by putting the emphasis upon the application of maximal monotone and accretive nonlinear operators in a Banach space to nonlinear dissipative dynamics, and in particular to the study of some time-dependent nonlinear partial differential equations seen as evolution equations in Banach spaces. ...

Nonlinear Differential Equations of Monotone Types in ...

This book is devoted to the study of nonlinear evolution and difference equations of first and second order governed by a maximal monotone operator. This class of abstract evolution equations contains not only a class of ordinary differential equations, but also unify some important partial differential equations, such as the heat equation, wave equation, Schrodinger equation, etc.

Nonlinear Evolution and Difference Equations of Monotone ...

This book is concerned with basic results on Cauchy problems associated with nonlinear monotone operators in Banach spaces with applications to partial differential equations of evolutive type. This is a monograph about the most significant results obtained in this area in last decades but is also written as a graduate textbook on modern methods in partial differential equations with main emphasis on applications to fundamental mathematical models of mathematical physics, fluid dynamics and ...

Nonlinear Differential Equations of Monotone Types in ...

We prove the existence of monotone bounded solutions of a recently derived nonlinear differential equation of geophysical relevance. Our approach relies on functional-analytic techniques and the obtained results have wide applicability, which we illustrate by some examples. Previous article in issue Next article in issue

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Monotone solutions of a nonlinear differential equation ...

Abstract This paper presents an efficient algorithm based on a monotone method for the solution of a class of nonlinear Volterra-Fredholm integro-differential equations of second order. This method...

(PDF) Monotone Iterative Technique for Nonlinear Volterra ...

Keywords--Monotone solution, Nonlinear differential equations, Comparison theorem. 1. INTRODUCTION This paper is concerned with a class of nonlinear differential equations of the form $[r(t)(y'(t))^\alpha]^\beta + q(t)(g(t))^\gamma = 0$, $t \geq t_0$, (1) where α is positive number, $q : [t_0, \infty) \rightarrow [0, \infty)$ is a continuous function such that $q(t) \rightarrow 0$, and $r : [t_0, \infty) \rightarrow (0, \infty)$ is a continuous function such that $r(t) \rightarrow 0$.

Monotone solutions of second-order nonlinear differential ...

G. Wang, "Monotone iterative technique for boundary value problems of a nonlinear fractional differential equation with deviating arguments," Journal of Computational and Applied Mathematics, vol. 236, no. 9, pp. 2425-2430, 2012. View at: Publisher Site | Google Scholar

Monotone Iterative Method for Fractional Differential ...

Project Euclid - mathematics and statistics online. Topol. Methods Nonlinear Anal. Volume 15, Number 1 (2000), 101-113. Solutions of implicit evolution inclusions with pseudo-monotone mappings

Topological Methods in Nonlinear Analysis

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Existence for nonlinear finite dimensional stochastic ...

See also List of nonlinear partial differential equations. A-F. Name Order Equation Applications Abel's differential equation of the first kind: 1 = + + + Mathematics: Abel's differential equation of the second kind: 1 (() + ()) = + + + Mathematics: Bellman's equation or Emden-Fowler's equation: 2 = Mathematics ...

List of nonlinear ordinary differential equations - Wikipedia

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Monotone Iterative Techniques for Discontinuous Nonlinear ...

A monotone iterative technique is used to obtain monotone approximate solutions that converge to the solution of nonlinear problems of partial differential equations of elliptic, parabolic and hyperbolic type.

Monotone Flows and Rapid Convergence for Nonlinear Partial ...

This work is concerned with the proof of the existence and uniqueness of the entropy weak solution to the following nonlinear hyperbolic equation: $u_t + u u_x = 0$

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$t + \operatorname{div}(vf(u)) = 0$ in $\mathbb{R}^N \setminus \Theta$ $[0; T]$, with initial data $u(\cdot; 0) = u_0(\cdot)$ in \mathbb{R}^N . where $u_0 \in L^1(\mathbb{R}^N)$ is a given function, v is a divergence-free bounded function of class C^1 from $\mathbb{R}^N \setminus \Theta$ $[0; T]$ to \mathbb{R}^N , and f is a function of ...

Discontinuous Solutions of Nonlinear Differential ...

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Springer Monographs in Mathematics Ser.: Nonlinear ...

Get this from a library! Nonlinear evolution and difference equations of monotone type in Hilbert spaces. [Behzad Djafari-Rouhani; Hadi Khatibzadeh] -- This book is devoted to the study of non-linear evolution and difference equations of first or second order governed by maximal monotone operator. This class of abstract evolution equations contains ...

Nonlinear evolution and difference equations of monotone ...

Navier-Stokes equation and Euler's equation in fluid dynamics, Einstein's field equations of general relativity are well known nonlinear partial differential equations. Sometimes the application of Lagrange equation to a variable system may result in a system of nonlinear partial differential equations.

Difference Between Linear and Nonlinear Differential Equations

In , the author discussed the Monotone iterative technique for boundary value problems of a nonlinear fractional differential equation with deviating arguments. Specially, here it is worth mentioning, that Al-Refai and Ali Hajji [14] introduce two well-defined monotone sequences of lower and upper solutions which converge uniformly to the ...

Monotone Iterative Solutions for Nonlinear Boundary Value ...

A proof that the solutions to certain classes of nonlinear ordinary and partial differential equations may be represented in terms of the maximum operation applied to the solutions of associated linear equations. This, in effect, affords a new approach to the quasi-linearization of nonlinear differential equations.

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