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**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

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equations seen as
evolution equations in
Banach spaces. ...

Monotone Types

In Banach Spaces

**Nonlinear
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Equations of
Monotone Types in**

... Mathematics

This book is concerned
with basic results on
Cauchy problems
associated with
nonlinear monotone
operators in Banach
spaces with
applications to partial

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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

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5 business days.

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days. This book is

concerned with basic

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results on Cauchy
problems associated

with nonlinear

monotone operators in
Banach spaces with

applications to partial
differential equations

of evolutive type.

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In particular, based on
the general results on
monotone nonlinear

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operator equations in

Hilbert and reflexive

Banach spaces,

Browder , proved the

existence and

uniqueness of

generalized and also

mild solutions, in the

case f is continuous,

carries bounded sets of

$[0, T] \times H$ into bounded

subsets of H and has a

semimonotone

property.

**Nonlinear functional
differential**

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Differential

equations of

monotone ...

Keywords--Monotone

solution, Nonlinear

differential equations,

Comparison theorem.

1. INTRODUCTION This

paper is concerned

with a class of

nonlinear differential

equations of the form

$[r(t)(y'(t))^{\alpha}]' +$

$q(t)(g(t))^{\beta} = 0, t \geq t_0,$

(1) where α is positive

number, $q : [t_0, \infty) \rightarrow$

$[0, \infty)$ is a continuous

function such that $q(t)$

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~ 0 , and $r: [t_0 \dots$

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Monotone solutions

of second-order

nonlinear

differential ...

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In Banach Spaces

**(PDF) Initial Value
Problem For
Nonlinear Fractional**

Mathematics

Navier-Stokes equation
and Euler's equation in
fluid dynamics,

Einstein's field
equations of general
relativity are well

known nonlinear partial
differential equations.

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Sometimes the application of Lagrange equation to a variable system may result in a system of nonlinear partial differential equations.

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**Difference Between
Linear and Nonlinear
Differential
Equations**

Existence and
Uniqueness of Positive
Solutions for Singular
Nonlinear Fractional
Differential Equation

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Differential

via Mixed Monotone Operator Method. In this article, we discuss the existence and uniqueness of positive solution for a class of singular fractional differential equations, where the nonlinear term contains fractional derivative and an operator. By applying the fixed point theorem in cone, we get the existence and uniqueness of positive solutions for

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the fractional
differential equation.

Monotone Types

In Banach Spaces

Existence and

Uniqueness of

Positive Solutions

for ...

Nonlinear Differential

Equations of Monotone

Types in Banach

Spaces. In the last

decades, functional

methods played an

increasing role in the

qualitative theory of

partial differential

equations.

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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.

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Rapid Convergence
for Nonlinear Partial**

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Type in Hilbert Spaces
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Equations Of

Nonlinear Evolution

and Difference

Equations of

Monotone ...

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

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differential equations,

but also unify some

important partial

differential equations,

such as the heat

equation, wave

equation, Schrodinger

equation, etc.

Mathematics

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and Difference

Equations of

Monotone ...

The representation

readily yields uniform

lower bounds for

solutions, and, in the

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case of stochastic nonlinear differential equations, leads to representations for the distribution functions of the solutions. In addition, a technique is provided for constructing monotone sequences of functions which converge quadratically to the solution of the nonlinear equation, which is of value in machine computation.

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On Nonlinear

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Equations, the

Maximum Operation

In Banach Spaces

...

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

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**Monotone Iterative
Method for Spaces**

Fractional

Differential ...

The monograph In

contains a wealth of

material in both the

abstract theory of

steady-state or

evolution equations of

monotone and

accretive type and

concrete applications

to nonlinear partial

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differential equations

from mathematical

modeling. The

organization of the

material is well done,

and the presentation,

although concise, is

clear, elegant ...

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Equations with

Applications ...

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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**

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equations of

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In this paper we propose a feasible numerical scheme for high-dimensional, fully nonlinear parabolic PDEs, which includes the quasi-linear PDE associated with a coupled FBSDE as a special case. Our paper is strongly motivated by the remarkable work Fahim, Touzi and Warin [Ann. Appl. Probab. 21 (2011)

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in the paradigm of
monotone schemes
initiated by Barles and
Souganidis ...
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