Generalized Solutions Of Operator Equations And Extreme Elements Springer Optimization And Its Applications

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Generalized Solutions Of Operator Equations

Generalized solutions - UCLA Department of Mathematics
GENERALIZED SOLUTIONS TERENCE TAO 1 Generalized solutions In many applications of mathematics, one uses a set of equations (often a set of partial differential equations) to model some system in real-life or in theoretical science; a typical such system might be expressible as a linear partial differential equation $Lu(x) = f(x)$ for all $x \in \Omega$

GENERALIZED UNIFORMLY CONTINUOUS SOLUTION ...
of the reasons why we have considered fractional equations in the framework of the Colombeau theory of generalized functions is the intention that these equations be treated using operator's approach, that is, applying the solution operators as generalization of semigroup of operators 2010 Mathematics Subject Classi cation 35R11, 46F30, 26A33

Generalized Solutions of Volterra Integral Equations of ...
Generalized solutions of the Volterra integral equations of the first kind were studied in papers [5], [9], [7] In paper [4] and in monograph [8] the

generalized solutions of the singular differential-operator equations are considered In these cases such equations are reducible to the Volterra integral equations of the first kind We

Calculating the Best Approximate Solution of an Operator ...

2 Best Approximate Solutions and Generalized Inverses In order to formu-late an iterative method for calculating the best approximate solution and develop Kantorovich's theory for general, possibly inconsistent, operator equations in Banach spaces, we employ the following notation and notions in …

Solutions of Nonlinear Operator Equations by Viscosity ...

operator equations are ever green (see eg, [8–12]) Inspired by the previous works in this direction, this paper studies an implicit iterative sequence that involves the generalized contraction and which is effective for obtaining the solutions of various nonlinear operator equa-tions Precisely, for a nonempty closed convex subset K of a

Regularization strategies for linear operator equations

in norm among all solutions of the minimization problem It will turn out that the solution meeting this criterion is unique and we call it the generalized solution of the operator equation Kx = y This is the meaning under which we have to understand the 'solution' notion

Generalized solutions to parabolic-hyperbolic equations

generalized solutions, using energy inequality and the density of the range of the operator generated by the problem 1 Introduction Theequations ofcompsite type, as independentmathematicalobjects, arosefirst in the works of Hadamard [10] Then they were continued by Sjostrand [11], and other [4, 7, 8] In all these works the equations in

Generalized Faddeev Equations for N-Particle Scattering

The derivation given for the generalized Faddeev equations closely parallels Faddeev's original derivation This emphasizes the simplicity of the new equations The generalized Faddeev equations for the resolvent operator and the decomposition of the scattering wave functions are given in Section IV

Generalized solutions to free boundary problems for ...

C[-x[O, a], satisfying equations (1), (5) ae, initial conditions (2), (6) and boundary conditions (3), (4), respectively Generalized solutions have been investigated in the past by various authors: for hyperbolic systems in bicharacteristic form with initial or boundary conditions

Holder regularity of solutions of generalized p-Laplacian ...

equations are classi ed as degenerate ($p > 2$) and singular ($1 < p < 2$) and are studied separately We have made the interesting observation that solutions of both degenerate and singular equations share similar regularity results by assuming boundedness of solutions Here

FREDHOLM OPERATORS AND THE GENERALIZED INDEX

differential equations and repackage them in the form Df= gfor some suitable differential operator Dbetween Banach spaces In each of these examples, given some sort of operator Tand an equation Tf = g, we wish to understand the existence and uniqueness of solutions…

Construction of some Generalized Inverses of Operators ...

verses than metric generalized inverses were not suitable to construct the extremal solutions, the minimal norm solutions, and the best approximate solutions of an ill-posed linear operator equations in Banach spaces [73] In order to solve the best approximation problems for ill-posed linear operator equations in Banach spaces,

Generalized Dirac Operators on Nonsmooth Manifolds and ...

Maxwell’s equations, the main novelty is the treatment of the corresponding electro-magnetic bound-ary value problem by recasting it as a ‘half’ Dirichlet problem for a suitable Dirac operator 1 Introduction Since the introduction in 1928 by the physicist P M Dirac of a rst-order linear di erential operator

ON THE EXISTENCE OF SOLUTION OF BOUNDARY VALUE ...

11 On generalized solution of a class of higher order operator-differtntial equations 9 12 On the existence of solutions of boundary value problems for a class of higher order operator-differential equations 18 13 On completeness of elementary generalized solution of a class of operator-differential equations of higher order 27 2

RANDOM OPERATOR EQUATIONS

Every generalized random variable x with values in the space X satisfying the condition T[w, x(w)] = z(w) with probability one will be called the random solution of the randomoperator equation (3) Evidentlythere mayexist wide sense solutions that are not randomsolutions Moreover, if the random operator equation (3) has more than one solution for

EXPLICIT SOLUTIONS OF GENERALIZED NONLINEAR ...

30 Explicit solutions of generalized nonlinear Boussinesq equations similarity reduction of the Boussinesq equation These symmetry reductions are obtained using the direct method By using this method, the equation is reduced to the first , second, and fourth Painleve equations, which involves no group theoretic techniques

Parabolic and Navier-Stokes Equations

PETR KUCERA˘, Perturbations of initial conditions of strong solutions of the Navier- Stokes equations in L3-norms DANIEL LENGELER, Global existence for the interaction of a Navier-Stokes fluid with a linearly elastic shell YASUNORI MAEKAWA, On the inviscid limit for the viscous incompressible flows in the half plane ALEX MAHALOV,Stochastic3DrotatingNavier-Stokesequations: averaging,conver-

Stable and Unstable Solitary-Wave Solutions of the ...

in X be well-posed The stability theory for solitary-wave solutions of KdV-type and RLW-type equations such as (3) has a 25-year history, starting with the very original work of Benjamin [31] (see also Bona [32]) The recent paper [23] has a review of the theory together with a long bibliography For the generalized-KdV equation (gKdV equation)

AN EIGENVALUE PROBLEM FOR NONLINEAR ELLIPTIC ...

as an application of his study of nonlinear integral equations The approach used in this dissertation is based on a direct study of elliptic differential operators without recourse to integral equations and Green's functions By focusing attention on the so-called generalized solutions of (1), we are able to

Local and Non-local Fractional Porous Media Equations

Oct 14, 2020 · pola operator maintains many of the familiar properties of standard derivatives such as the product, quotient, and chain rules Throughout this section, we consider the Katugampola derivative (Katugampola operator), to solve the generalized PME By applying this local derivative, our solution will be a generalized q-Gaussian distri-bution