

# DOWNLOAD REGULARIZATION UNIQUENESS EXISTENCE OF SOLUTIONS OF VOLTERRA EQUATIONS OF THE FIRST KIND INVERSE AND ILL POSED PROBLEMS

## **regularization uniqueness existence of pdf**

The existence and uniqueness of solutions are known to hold for  $n = 2$  while only partially solved in the case  $n = 3$ . In fact, existence of global weak solutions is known since the seminal work of Leray [ 1 ], while their uniqueness and regularity is still an open question.

## **On 3D Navier–Stokes equations: Regularization and**

rigorous proof for the existence, uniqueness, and convergence properties is provided in [12], where a systematic way of choosing the regularization parameter was also proposed.

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## **Regularization, Uniqueness and Existence of Solutions of**

generalized Tikhonov-Phillips functionals of the form (3) which guarantee existence and uniqueness and stability of the minimizers. The particular cases in which the penalizers are given by the bounded variation norm, by powers of seminorms and by linear combinations of powers of seminorms associated to closed operators, are studied.

## **Existence, uniqueness and stability of solutions of**

Such is the case for instance of the Tikhonov-Phillips method of order one, the total variation regularization method, etc. In this article we find sufficient conditions on the penalizers in generalized Tikhonov-Phillips functionals which guarantee existence and uniqueness and stability of the minimizers.

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## **Inverse Problems and Regularization An Introduction**

The method of regularization, which proves the existence, the uniqueness and the stability of the solution, which is nearest the initial guess in the  $L^2$  norm, is described.

### **The inverse gravimetric problem: Existence, uniqueness and**

on the existence and uniqueness of analytic solutions to certain higher order nonlinear partial differential equations in a sector in the complex plane, with imposed far-field matching conditions. In [7] we addressed rigorously the existence questions in some third-order nonlinear PDEs.

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Existence, uniqueness and stability of solutions of generalized Tikhonov-Phillips functionals. University of Minnesota. Institute for Mathematics and Its Applications.

### **Existence, uniqueness and stability of solutions of**

Iterative Regularization Certain iterative methods, e.g., steepest descent, conjugate gradients, and Richardson-Lucy (EM), have regularizing effects with the regularization parameter equal to the number of iterations. These are useful in applications, like 3-D imaging, with many unknowns. An example is Landweber iteration, a variant of steepest descent.

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