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Numerical optimization methods in function-spaces and their application to PDE-constrained problems are carefully presented. The developed results are illustrated with several examples, including linear and nonlinear ones. In addition, MATLAB codes, for representative problems, are included. Furthermore, recent results in the emerging field of nonsmooth numerical PDE constrained optimization.

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This book introduces, in an accessible way, the basic elements of Numerical PDE-Constrained Optimization, from the derivation of optimality conditions to the design of solution algorithms.

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Introduction to the theory and numerical solution of PDE constrained optimization problems Matthias Heinkenschloss Rice University Fredi Tröltzsch Technische Universit at Berlin Workshop on PDE Constrained Optimization, Tomar 2005. Outline of the Tutorial 2 1. Examples of elliptic control problems 2. Existence of optimal solutions 3. Optimality conditions 4. Discretization strategies 5.

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from the derivation of optimality conditions to the design of solution algorithms.

Optical tomography as a PDE-constrained optimization problem

Optical tomography as a PDE-constrained optimization problem 1509 might be added to (3). We refer interested readers to references [33, 54, 58, 59] for detailed PDE Constrained Optimization - archive.siam.org I PDE constrained optimization is a very active area, as indicated by the large number of talks/minisymposia in the area of PDE constrained optimization at this meeting.

Probabilistic Numerical Methods for PDE-constrained

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Note that the mean function in Eq. 2 is the same as the numerical solution to the PDE that would be obtained using the method of symmetric collocation [5]. Thus far we not discussed the choice of prior covariance k .

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Optimal solvers for PDE-Constrained Optimization engineering, in particular in problems of design. The solution of such PDE-constrained optimization problems is usually a major computational task. Here we consider simple problems of this type: distributed control problems in which the 2- and 3-dimensional Poisson problem is the PDE. The large di-

PDE-CONSTRAINED OPTIMIZATION IN MEDICAL IMAGE ANALYSIS

tion, and numerical solution of PDE-constrained optimization problems for medical imaging. We discuss

three examples. The first one is image registration. The second one is data assimilation for brain tumor patients, and the third one data assimilation in cardiovascular imaging. The image registration problem is a classical task in medical image analysis and seeks to find pointwise cor

Progressive construction of a parametric reduced order

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A sequence of optimization problems constrained by a given ROM is defined with the goal of converging to the solution of a given PDE-constrained optimization problem. For each reduced optimization problem, the constraining ROM is trained from sampling the high dimensional model (HDM) at the solution of some of the previous problems in the sequence. The reduced optimization problems are