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ESTIMATION OF NONLINEAR DAMPING
IN SECOND ORDER DISTRIBUTED
PARAMETER SYSTEMS

H. T. Banks
Simeon Reich
I. G. Rosen

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Institute for Computer Applications in Science and Engineering
NASA Langley Research Center
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Estimation Of Nonlinear Damping In Second Order Distributed Parameter Systems

Katrin Zwirgmaier



Estimation Of Nonlinear Damping In Second Order Distributed Parameter Systems:

Estimation on Nonlinear Damping in Second Order Distributed Parameter Systems National Aeronautics and Space Administration (NASA), 2018-07-02 An approximation and convergence theory for the identification of nonlinear damping in abstract wave equations is developed It is assumed that the unknown dissipation mechanism to be identified can be described by a maximal monotone operator acting on the generalized velocity The stiffness is assumed to be linear and symmetric Functional analytic techniques are used to establish that solutions to a sequence of finite dimensional Galerkin approximating identification problems in some sense approximate a solution to the original infinite dimensional inverse problem Banks H T and Reich Simeon and Rosen I G Unspecified Center NAS1 18107 NAS1 18605 F49620 86 C 0111 AF AFOSR 0356 87 NSF MCS 85 04316 NAG1 517

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Scientific and Technical Aerospace Reports, 1990 *Kybernetika*, 1998 Analytic Semigroups: Applications to Inverse Problems for Flexible Structures H. T. Banks, D. A. Rebnord, 1990 In this presentation we consider abstract inverse problems in a least squares formulation for parameter dependent partial differential equations We are interested in approximation ideas which lead to viable computational techniques for such problems We pursue our investigations in the context of the general framework for convergence and stability developed by Banks and Ito Motivated by questions related to the use of accelerometer data to estimate parameters in flexible structures we focus on second order in time systems with sufficient damping so that the system can be modeled by a analytic semigroup We state and prove a new approximation result a Trotter Kato type theorem for analytic semigroups This theorem gives conditions under which a family of approximating semigroups and all its time derivatives converges to a limit semigroup and all its time derivatives respectively These theoretical results are then stated in terms of simple readily checked conditions on the sesquilinear forms defining stiffness and damping in the abstract second order systems *jes* Mathematical Reviews, 2001 *Control and Estimation of Distributed Parameter Systems* F. Kappel, Karl Kunisch, Wilhelm Schappacher, 1989 **Dynamic Systems and Applications**, 1999 Cumulative Reports and Publications Through December 31, 1991, 1992 Cumulative Reports and Publications Through December 31, 1989, 1990 **Cumulative Reports and Publications Through December 31, 1990**, 1991 Numerical Analysis and Its Applications, 2004 *Cumulative Reports and Publications Through December 31, 1994*, 1995 Control Theory and Advanced Technology, 1985 *Government Reports Annual Index*, 1990 Bibliography on Power System Dynamics & Control, 1965-1972 Osama M. Mostafa, 1974 *Servomechanisms: Bulletin of Automatic and Manual Control Abstracts*, 1968 *Servomechanisms*, 1968 **Computer & Control Abstracts**, 1996 **Proceedings of the ... International Conference on Phenomena in Ionized Gases**, 1966

Decoding **Estimation Of Nonlinear Damping In Second Order Distributed Parameter Systems**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Estimation Of Nonlinear Damping In Second Order Distributed Parameter Systems**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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