# Inverse Problems in Engineering Mechanics

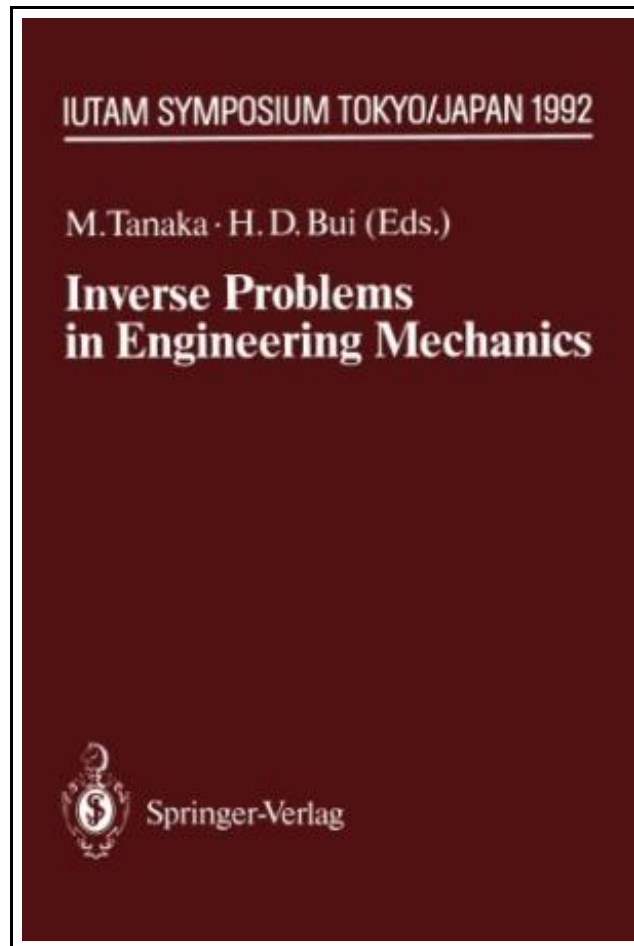IUTAM SYMPOSIUM TOKYO/JAPAN 1992

M. Tanaka · H. D. Bui (Eds.)

**Inverse Problems in Engineering Mechanics**

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## Reviews

*Extremely helpful to all of group of individuals. It really is loaded with knowledge and wisdom Its been designed in an extremely basic way and is particularly simply after i finished reading through this ebook where actually altered me, affect the way i believe.*
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# INVERSE PROBLEMS IN ENGINEERING MECHANICS



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Book Condition: New. Publisher/Verlag: Springer, Berlin | IUTAM Symposium Tokyo, 1992 | Inverse problems occur in a wide variey of fields. In general, the inverse problem can be defined as one where one should estimate the cause from the result, while the direct problem is concerned with how to obtain the result from the cause. The aim of this symposium was to gather scientists and researchers in engineering mechanics concerned with inverse problems in order to exchange research result and develop computational and experimentalapproaches to solve inverse problems. The contributions in this volume cover the following subjects: mathematical and computational aspects of inverse problems, parameter or system identification, shape determination, sensitivity analysis, optimization, material property characterization, ultrasonic nondestructive testing, elastodynamic inverse problems, thermal inverse problems, and other miscellaneous engineering applications. | List of Contents.- 1 Mathematical Aspects.- On Regularization Methods within System Identification.- New Approaches to the Optimal Regularization.- A Method for Solving Inverse Boundary-Value Problems Using Symbolic Computation.- An Application of the Fuzzy Control for an Ill-posed Problem.- Inverse Filtering for Reverberant Transfer Functions.- 2 Computational Aspects.- Classification of Inverse Problems Arising in Field Problems and Their Treatments.- A Physically Based Method of Experimental Data-Concepts, Formulation and Application to Identification of Residual Stresses.- Inverse Problems for Vibrating Systems in Two and Three Dimensions.- Inverse Spectrum Problems for Block Jacobi Matrix.- Parametric Correction of Finite Element Models Using Modal Tests.- Structural Defect Synthesis Using Noise-Frequency Response Characteristics for Coupled Acoustic-Structural System by Fuzzy Inference Method.- Inverse Problem Solution in Non-destructive Pavement Diagnostics -Computational Aspects.- Inverse Formulation for Incompressible Viscous Two-Dimensional and Axisymmetric Flow Problems.- 3 Parameter Identification.- Requirements for the Structure of Analytical Models Used for Parameter Identification.- Inverse Problem in Mechanics of Structures: a New Approach Based on Displacement Field Processing.- New Method for Determining Contact Pressure Disributions by...

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