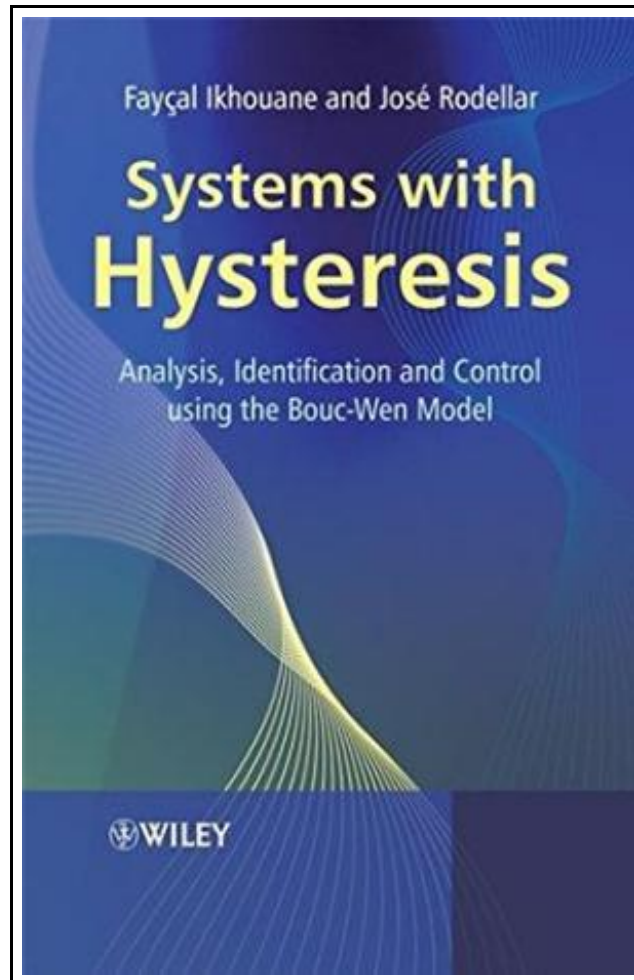


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SYSTEMS WITH HYSTERESIS: ANALYSIS, IDENTIFICATION AND CONTROL USING THE BOUC-WEN MODEL



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John Wiley and Sons Ltd. Hardback. Book Condition: new. BRAND NEW, Systems with Hysteresis: Analysis, Identification and Control Using the Bouc-Wen Model, Jose Rodellar, Faycal Ikhouane, Hysteresis is a system property that is fundamental to a range of engineering applications as the components of systems with hysteresis are able to react differently to different forces applied to them. Control theory is used to model these complex systems and cause them to behave in the desired manner; the Bouc-Wen model is a well-known semi-physical model that is used extensively to describe the hysteresis of systems in the areas of smart structures and civil engineering. The Bouc-Wen model for system hysteresis has increased in popularity due to its capability of capturing in an analytical form a range of shapes of hysteretic cycles that match the behaviour of a wide class of hysteretic systems. "Systems with Hysteresis: Analysis, Identification and Control using the Bouc-Wen Model" deals with the analysis, identification and control of these systems, and offers a comprehensive and self-contained framework for the study of the Bouc-Wen model.* Includes the latest techniques for modelling smart structures and materials* Provides a rigorous mathematical treatment of the subject along with practical comments, numerical solutions and a case study of magnetorheological (MR) dampers.* Begins by analysing the compatibility of the Bouc-Wen model with the laws of physics, and continues to cover the relationship between the model parameters and hysteresis loop, identification of the model parameters and control of systems that include a hysteretic part described by the Bouc-Wen model.* Includes case studies covering the identification and control of smart material transducers for use in automotive, aerospace and structural control Systems with Hysteresis: Analysis, Identification and Control using the Bouc-Wen Model offers an invaluable source of ideas, concepts and insights for engineers, researchers, lecturers and senior/...

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