



Models Of Hysteresis

I. D. Mayergoyz



Models Of Hysteresis:

Mathematical Models of Hysteresis I.D. Mayergoyz, 2012-12-06 The purpose of this book is to describe in sufficient detail the mathematical models of hysteresis nonlinearities with nonlocal memories The distinct feature of these nonlinearities is that their future states depend on past histories of input variations It turns out that memories of hysteresis nonlinearities are quite selective Indeed experiments show that only some past input extrema not the entire input variations leave their marks upon future states of hysteresis nonlinearities Thus special mathematical tools are needed to describe nonlocal selective memories of hysteresis nonlinearities The origin of such tools can be traced back to the landmark paper of Preisach The book is primarily concerned with Preisach type models of hysteresis All these models have a common generic feature they are constructed as superpositions of simplest hysteresis nonlinearities rectangular loops The discussion is by and large centered around the following topics various generalizations and extensions of the classical Preisach model with special emphasis on vector generalizations finding of necessary and sufficient conditions for the representation of actual hysteresis nonlinearities by various Preisach type models solution of identification problems for these models and numerical implementation and experimental testing of Preisach type models Although the study of Preisach type models constitutes the main subject of the book some effort is also made to establish some interesting connections between these models and such topics as the critical state model for superconducting hysteresis the classical Stoner Wohlfarth model for vector magnetic hysteresis thermal activation type models for viscosity magnetostrictive hysteresis and neural networks **Mathematical**

Models of Hysteresis and their Applications Isaak D. Mayergoyz, 2003-10-01 This new edition has been significantly revised and updated to reflect advances in the field since the publication of the first edition such as the systematic experimental testing of Preisach models of hysteresis The author has however retained the two most salient features of the original the emphasis on the universal nature of mathematical models of hysteresis and their applicability to the description of hysteresis phenomena in various areas of science technology and economics and its accessibility to a broad audience of researchers engineers and students Provides a unique emphasis on the development of universal mathematical models of hysteresis Accessibility to a broad audience using simple and complex mathematical tools application to various areas of science Presents new theoretical and experimental results Models of Hysteresis Augusto Visintin, 1993-06-05 Hysteresis effects appear in several physical phenomena such as ferromagnetism ferroelectricity and plasticity They also appear in many fields of engineering This state of the art volume provides a unique insight into this relatively new but rapidly developing topic of applied mathematics Differential Models of Hysteresis Augusto Visintin, 2013-06-29 Hysteresis effects occur in science and engineering plasticity ferromagnetism ferroelectricity are well known examples Modelling and mathematical analysis of hysteresis phenomena have been addressed by mathematicians only recently but are now in full development This volume provides a self contained and comprehensive introduction to the analysis of hysteresis models and

illustrates several new results in this field First the classical models of Prandtl Ishlinskii Preisach and Duhem are formulated and studied using the concept of hysteresis operator A new model of discontinuous hysteresis is introduced Several partial differential equations containing hysteresis operators are studied in the framework of Sobolev spaces Mathematical Models of Hysteresis, 1991 The research described in this proposal is currently being supported by the US Department of Energy under the contract Mathematical Models of Hysteresis Thus before discussing the proposed research in detail it is worthwhile to describe and summarize the main results achieved in the course of our work under the above contract Our ongoing research has largely been focused on the development of mathematical models of hysteretic nonlinearities with nonlocal memories The distinct feature of these nonlinearities is that their current states depend on past histories of input variations It turns out that memories of hysteretic nonlinearities are quite selective Indeed experiments show that only some past input extrema leave their marks upon future states of hysteretic nonlinearities Thus special mathematical tools are needed in order to describe nonlocal selective memories of hysteretic nonlinearities Our research has been primarily concerned with Preisach type models of hysteresis All these models have a common generic feature they are constructed as superpositions of simplest hysteretic nonlinearities rectangular loops Our study has by and large been centered around the following topics various generalizations and extensions of the classical Preisach model finding of necessary and sufficient conditions for the representation of actual hysteretic nonlinearities by various Preisach type models solution of identification problems for these models numerical implementation and experimental testing of Preisach type models Although the study of Preisach type models has constituted the main direction of the research some effort has also been made to establish some interesting connections between these models and such topics as the critical state model for superconducting hysteresis the classical Stoner Wohlfarth model of vector magnetic hysteresis thermal activation type models for viscosity magnetostrictive hysteresis and neural networks

The Science of Hysteresis Giorgio Bertotti, I. D. Mayergoyz, 2006 Volume 1 covers Mathematical models Differential equations Stochastic aspects of hysteresis Binary detection using hysteresis Models of unemployment in economics Volume 2 covers Physical models of magnetic hysteresis All aspects of magnetisation dynamics Volume 3 covers Hysteresis phenomena in materials Over 2100 pages rich with supporting illustrations figures and equations Contains contributions from an international list of authors from a wide range of disciplines Covers all aspects of hysteresis from differential equations and binary detection to models of unemployment and magnetisation dynamics

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authors from a wide range of disciplines Covers all aspects of hysteresis from differential equations and binary detection to models of unemployment and magnetisation dynamics *Mathematical Models of Hysteresis . Progress Report No. 4, January 1, 1991--December 31, 1991* ,1991 The research described in this proposal is currently being supported by the US Department of Energy under the contract Mathematical Models of Hysteresis Thus before discussing the proposed research in detail it is worthwhile to describe and summarize the main results achieved in the course of our work under the above contract Our ongoing research has largely been focused on the development of mathematical models of hysteretic nonlinearities with nonlocal memories The distinct feature of these nonlinearities is that their current states depend on past histories of input variations It turns out that memories of hysteretic nonlinearities are quite selective Indeed experiments show that only some past input extrema leave their marks upon future states of hysteretic nonlinearities Thus special mathematical tools are needed in order to describe nonlocal selective memories of hysteretic nonlinearities Our research has been primarily concerned with Preisach type models of hysteresis All these models have a common generic feature they are constructed as superpositions of simplest hysteretic nonlinearities rectangular loops Our study has by and large been centered around the following topics various generalizations and extensions of the classical Preisach model finding of necessary and sufficient conditions for the representation of actual hysteretic nonlinearities by various Preisach type models solution of identification problems for these models numerical implementation and experimental testing of Preisach type models Although the study of Preisach type models has constituted the main direction of the research some effort has also been made to establish some interesting connections between these models and such topics as the critical state model for superconducting hysteresis the classical Stoner Wohlfarth model of vector magnetic hysteresis thermal activation type models for viscosity magnetostrictive hysteresis and neural networks The Science of Hysteresis Giorgio Bertotti,Isaak D. Mayergoyz,2005-12-20 Volume 1 covers Mathematical models Differential equations Stochastic aspects of hysteresis Binary detection using hysteresis Models of unemployment in economics Volume 2 covers Physical models of magnetic hysteresis All aspects of magnetisation dynamics Volume 3 covers Hysteresis phenomena in materials Over 2100 pages rich with supporting illustrations figures and equations Contains contributions from an international list of authors from a wide range of disciplines Covers all aspects of hysteresis from differential equations and binary detection to models of unemployment and magnetisation dynamics A New Preisach-type Model of Hysteresis in Interacting, Single Domain Magnetic Particle Systems Christopher Raymond Pike,1996 Mathematical Models for Structural Reliability Analysis Fabio Casciati,Brian Roberts,1996-07-24 Mathematical Models for Structural Reliability Analysis offers mathematical models for describing load and material properties in solving structural engineering problems Examples are provided demonstrating how the models are implemented and the limitations of the models are clearly stated Analytical solutions are also discussed and methods are clearly distinguished from models The authors explain both theoretical models and practical applications in a clear concise

and readable fashion The Science of Hysteresis: Hysteresis in materials I. D. Mayergoyz, 2006 Volume 1 covers Mathematical models Differential equations Stochastic aspects of hysteresis Binary detection using hysteresis Models of unemployment in economics Volume 2 covers Physical models of magnetic hysteresis All aspects of magnetisation dynamics Volume 3 covers Hysteresis phenomena in materials Over 2100 pages rich with supporting illustrations figures and equations Contains contributions from an international list of authors from a wide range of disciplines Covers all aspects of hysteresis from differential equations and binary detection to models of unemployment and magnetisation dynamics **Noise-Driven Phenomena in Hysteretic Systems** Mihai Dimian, Petru Andrei, 2013-11-04 Noise Driven Phenomena in Hysteretic Systems provides a general approach to nonlinear systems with hysteresis driven by noisy inputs which leads to a unitary framework for the analysis of various stochastic aspects of hysteresis This book includes integral differential and algebraic models that are used to describe scalar and vector hysteretic nonlinearities originating from various areas of science and engineering The universality of the authors approach is also reflected by the diversity of the models used to portray the input noise from the classical Gaussian white noise to its impulsive forms often encountered in economics and biological systems and pink noise ubiquitous in multi stable electronic systems The book is accompanied by HysterSoft a robust simulation environment designed to perform complex hysteresis modeling that can be used by the reader to reproduce many of the results presented in the book as well as to research both disruptive and constructive effects of noise in hysteretic systems *Mathematical Models of Hysteresis. Progress Report, January 1993--December 1993* ,1993 Progress is reported in 7 areas development of vector Preisach type models of hysteresis modeling of rotational hysteretic losses experimental testing of generalized vector Preisach models of hysteresis development of Preisach type models for aftereffect analytical investigation of penetration of electromagnetic fields into superconductors with gradual resistive transitions computation of magnetic fields in hysteretic media and development of new techniques for calculating 3 D eddy current problems *Differential Models Of Hysteresis* A. Visintin, *Models Of Hysteresis* A. Visintin, Scattering Theory And Biomedical Engineering Modelling And Applications - Proceedings Of The 4th International Workshop George Dassios, Dimitrios I Fotiadis, K Kiriaki, Christos V Massalas, 2000-10-09 This book addresses issues of scattering theory and biomedical engineering as well as methodological approaches and tools from related scientific areas such as applied mathematics mechanics numerical analysis and signal and image processing **Scattering and Biomedical Engineering** Dimitrios Ioannou Fotiadis, 2002 This volume deals with scattering theory applied mathematics modeling and biomedical engineering Most of the papers describe mathematical methods numerical solutions and models for well known problems in those areas The proceedings have been selected for coverage in OCo Index to Scientific Technical Proceedings ISTP CDRom version ISI Proceedings *Systems with Non-Smooth Inputs* Jürgen Appell, Nguyen Thi Hien, Lyubov Petrova, Irina Pryadko, 2021-03-08 The authors present a completely new and highly application oriented field of nonlinear analysis The work covers the theory of non smooth input

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