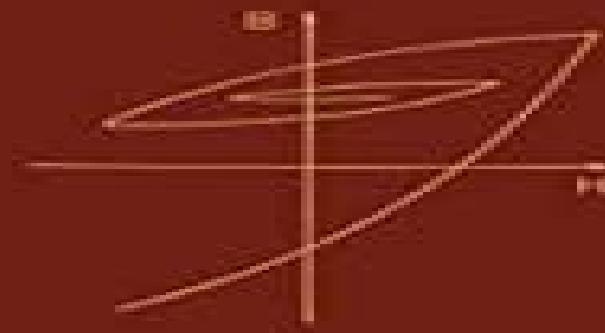


I.D. Mayergoyz

Mathematical Models of Hysteresis



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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.

Mathematical Models of Hysteresis I.D. Mayergoyz, 2011-10-29 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** ,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

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 output systems and presents various methods to non standard applications in mathematics and physics A particular focus lies on hysteresis and relay phenomena electric circuits with diode nonlinearities and biological systems with constraints **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

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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. Progress Report, January 1993--December 1993

,1993 Progress is reported in 7 areas development of vector Preisach type models of hysteresis modeling of rotational hysteresis 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 hysteresis media and development of new techniques for calculating 3 D eddy current problems

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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 **Hysteresis Phenomena in Biology** Hamid Reza Noori,2013-11-27 The occurrence of hysteresis phenomena has been traditionally associated with mechanical and magnetic properties of materials However recent studies on the dynamics of biological processes suggest switch like behavior that could be described by mathematical models of hysteresis This book presents the milestones and perspectives of biological hysteresis and provides a comprehensive and application oriented introduction to this subject The target audience primarily comprises researchers but the book may also be beneficial for graduate students Aspects of Mathematical Modelling Roger J. Hosking,Ezio Venturino,2008-03-02 The construction of mathematical models is an essential scientific activity Mathematics is associated with developments in science and engineering but more recently mathematical modelling has been used to investigate complex systems that arise in other fields This book demonstrates the application of mathematics to research topics in ecology and environmental science health and medicine phylogenetics and neural networks theoretical chemistry economics and management

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