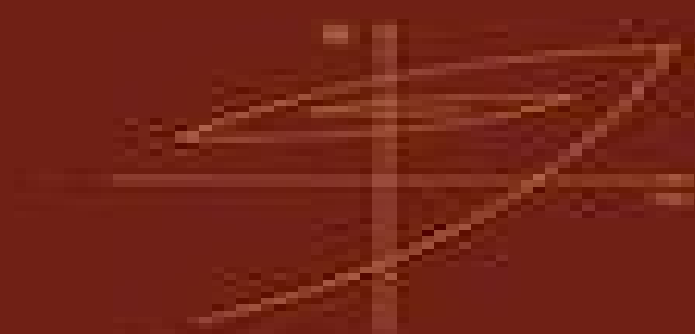


L.D. Mayergoyz

Mathematical Models of Hysteresis



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Mathematical Models Of Hysteresis

I.D. Mayergoyz



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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 ,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

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 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

Mathematical Models of Hysteresis (Dynamic Problems in Hysteresis). , 2006 The Science of Hysteresis: Physical modeling, micromagnetics, and magnetization dynamics 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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