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A phenomenological mathematical model of hysteresis

J. Takács

Department of Engineering Science, University of Oxford, Oxford, UK

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Abstract: *This paper starts with the description of a purely mathematical model of the saturation curve and the hysteresis loop based on the fundamental similarities between the Langevin function the specified $T(x)$ function and the sigmoid shape. The $T(x)$ function which is composed of tangent hyperbolic and linear functions with its free parameters can describe the regular hysteretic magnetisation curve. Developed from this function the model describes not only the regular hysteresis loop but also the biased and other minor loops like the ones produced by the interrupted and reversed magnetisation process and the open "loops" created by a piecewise monotonic magnetising field input of diminishing amplitude. The remanent magnetism as the function of the interrupted field co-ordinates is predicted by the model in this mathematical form for the first time. The model presented here is based on the principle that all processes follow the shape of the $T(x)$ function describing the shape of the major hysteresis loop of the ferromagnetic specimen under investigation. The model is also applicable to hysteretic processes in other fields.*

Introduction

The mathematical description of the hysteresis is one of the fundamental problems of ferromagnetism. The investigation into the phenomenon produced a number of approaches, like the Preisach model (accommodation, wiping out property, moving model, vector model etc.), vector hysteresis based on Stoner-Wohlfarth model, each contributing to the understanding of the phenomenon without creating the full picture of it.

Ferromagnetic substances are generally solids, characterised by two important properties, namely the Curie point and also that the atoms of these materials have large dipole moments. When the sample is subjected to an external magnetic field the domains tend to align in the direction of the field and by doing so the volume of the domains with moments in the direction of the field will increase. When the field is removed not all the domains will move back to their original random state. The overall state of the sample will be different from that of the beginning and this is the magnetic history called hysteresis. When the external field is large the magnetisation is no longer proportional to the applied field and tends to a constant saturation value. A general overview of the different hysteresis models can be found in *Hysteresis Models in Electromagnetic Computation* by Iványi (1997).

A number of mathematical approaches had been made to formulate the behaviour of ferromagnetic substances. One of the first theories was put

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