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Collana	Linguistik aktuell = Linguistics today, , 0166-0829 ; ; v. 111
Altri autori (Persone)	EgurenLuis Fernandez SorianoOlga
Disciplina	415
Soggetti	Grammar, Comparative and general - Syntax Semantics Reference (Linguistics) Modality (Linguistics) Focus (Linguistics)
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ISBN	9786611160142 9780191523670 0191523674 9780191713545 0191713546 9781281160140 1281160148 9781435620797 1435620798
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Soggetti	Magnetization Equations of motion Magnetic recorders and recording
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Nota di bibliografia	Includes bibliographical references (p. 185-188) and index.
Nota di contenuto	Intro -- Contents -- Preface -- Notations and conventions -- 1 The Classical Magnetization Field -- 1.1 Introduction -- 1.2 Equations of motion -- 1.2.1 Damping -- 1.3 Approaching the Curie temperature -- 2 Small motions of the Magnetization -- 2.1 Introduction -- 2.2 Models of small motions -- 2.2.1 Distributive damping -- 2.2.2 Instabilities and spin wave condensates -- 3 Intrinsic Damping -- 3.1 Introduction -- 3.2 Magnetostrictive coupling -- 3.2.1 Small samples -- 3.2.2 Large, homogeneous samples -- 3.3 Loss torque in magnetic metals -- 3.3.1 Eddy current damping -- 3.3.2 Direct coupling of conduction electrons to the magnetization field -- 3.4 Fluctuations in medium properties -- 3.5 Relaxation due to weakly coupled magnetic impurities -- 3.5.1 Slow relaxation -- 3.5.2 Corrections to the adiabatic limit -- 3.6 Appendix 3A. Inclusion of displacement current in

Section 3.3.1 -- 4 Fluctuations -- 4.1 Introduction -- 4.2 Fluctuation-dissipation theorem -- 4.3 Langevin equation, and generalized Langevin equation -- 4.4 Fokker-Planck equation-cartesians -- 4.4.1 Fokker-Planck equation in polar angles -- 4.4.2 Fokker-Planck equation in the absence of well-defined canonical variables -- 5 Magnetization Reversal in a Very Dilute Array of Small Particles -- 5.1 Introduction -- 5.2 General observations -- 5.3 Reversal in 2d -- 5.3.1 Reversal in the long time limit -- 5.3.2 Intermediate time scales -- 5.3.3 Applied field and anisotropy axis misaligned -- 5.3.4 Relation to first-passage type theories -- 5.4 Rotation in 3d -- 6 Magnetization Reversal in Arrays of Particles and Continuous Media -- 6.1 Introduction -- 6.2 Relaxation due to magnetic moment interaction in a sparse medium -- 6.2.1 Equations of motion for dipolar interaction -- 6.2.2 A single pair -- 6.3 More dense arrays of many interacting particles -- 6.3.1 The Arnold web. 6.3.2 Relevance to magnetic relaxation and reversal -- 6.3.3 Effective single-variable relaxation from causes other than chaos -- 6.4 Magnetization reversal and the magnetization process in large, dense systems -- 6.4.1 Simple model of magnetization reversal by domain wall motion -- 6.4.2 Motion of a Bloch domain wall -- 6.4.3 Magnetostatics and the magnetization process. Pre-existing domain walls -- 6.5 Appendix 6A: Vortex solutions in cylinder and disc: stability considerations -- References -- Subject Index -- A -- B -- C -- D -- E -- F -- G -- H -- I -- K -- L -- M -- N -- P -- R -- S -- T -- V -- W -- Z.

Sommario/riassunto

This book throws some light on poorly understood aspects of the motion of magnetization in magnetic solids, particularly the effects of dissipative mechanisms. Aside from its practical aspects (such as magnetic recording), it addresses readers interested in the basic physics of nonlinear phenomena.
