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Autore	Safonov Vladimir L
Titolo	Nonequilibrium magnons [[electronic resource] ] : theory, experiment, and applications // Vladimir L. Safonov
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Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Nonequilibrium Magnons: Theory, Experiment, and Applications; Contents; Preface; 1 Harmonic Oscillators and the Universal Language of Science; 1.1 Harmonic Oscillator; 1.1.1 Complex Canonical Variables; 1.2 Classical Rotation; 1.2.1 Classical Spin and Magnetic Resonance; 1.3 Collective Variables and Harmonic Oscillators in k-space; 1.3.1 Chain of Masses and Springs; 1.3.2 Chain of Magnetic Particles; 1.4 Discussion; 2 Magnons in Ferromagnets and Antiferromagnets; 2.1 Phenomenological Description; 2.1.1 Magnons in a Ferromagnet; 2.1.1.1 Holstein-Primakoff Transformation; 2.1.1.2 The Spectrum of Magnons; 2.2 Microscopic Modeling; 2.2.1 Magnons in a Two-Sublattice Antiferromagnet; 2.2.1.1 Hamiltonian; 2.2.1.2 Spectrum of Magnons; 2.2.2 Magnon-Magnon Interactions; 2.3 Nuclear Magnons; 2.4 Magnetoelastic Waves, Quasi Phonons; 2.5 Discussion; 3 Relaxation of Magnons; 3.1 Master Equation; 3.2 Relaxation of Bose Quasi Particles; 3.2.1 Relaxation Process of Harmonic Oscillators; 3.2.2 Magnon-Electron Scattering; 3.3 Relaxation via an Intermediate Damped Dynamic System; 3.4 Ferromagnetic Resonance Linewidth; 3.5 Magnons and Macroscopic Dynamic Equation; 3.5.1 Linearized Landau-Lifshitz Equation; 3.6 Relaxation of Coupled

Oscillations; 3.6.1 Example 1: Nuclear Magnons; 3.6.2 Example 2: Magnetoelastic Oscillations; 3.7 Discussion; 4 Microwave Pumping of Magnons; 4.1 Linear Theory; 4.1.1 Ferromagnetic Resonance; 4.1.2 Threshold of Parametric Resonance; 4.2 Parametric Resonance in a Resonator Cavity; 4.3 Nonlinear SR Theory; 4.4 Experimental Techniques; 4.5 Experimental Results; 4.5.1 Equivalent Circuit; 4.5.2 SR Theory and Experiment; 4.5.2.1 Modulation Response; 4.6 Discussion; 5 Thermodynamic Description of Strongly Excited Magnon System  
6.2 Quasi Equilibrium Magnons  
6.2.1 Ideal Gas of Quasi Equilibrium Magnons; 6.2.2 Example: Isotropic Spectrum; 6.2.3 Kinetic Equations; 6.2.3.1 The Case of  $T_{\text{eff}} = T$ ; 6.2.4 Magnon System with Bose Condensate; 6.2.5 Magnetodipole Emission of Condensate; 6.3 Frohlich Coherence; 6.4 Discussion; 7 Magnons in an Ultrathin Film; 7.1 Model; 7.1.1 Magnetic Energy; 7.2 Magnons; 7.2.1 Magnon Interactions; 7.2.2 Effective Four-Magnon Interactions; 7.3 Example; 7.4 Discussion; 8 Collective Magnetic Dynamics in Nanoparticles; 8.1 Long-Lived States in a Cluster of Coupled Nuclear Spins; 8.2 Electronic Spins  
8.3 Spin-Echo Logic Operations

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Sommario/riassunto

This much-needed book addresses the concepts, models, experiments and applications of magnons and spin wave in magnetic devices. It fills the gap in the current literature by providing the theoretical and technological framework needed to develop innovative magnetic devices, such as recording devices and sensors. Starting with a historical review of developments in the magnon concept, and including original experimental results, the author presents methods of magnon excitation, and several basic models to describe magnon gas. He includes experiments on Bose-Einstein condensation of

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2. Record Nr.	UNINA9910816183903321
Autore	Chan Chak Kwan
Titolo	Social policy in China : development and well-being // Chak Kwan Chan, King Lun Ngok and David Phillips [[electronic resource]]
Pubbl/distr/stampa	Bristol, UK : , : Policy, , 2008
ISBN	1-4473-0341-5 1-282-98579-5 9786612985799 1-84742-959-9
Descrizione fisica	1 online resource (xiii, 234 pages) : digital, PDF file(s)
Altri autori (Persone)	YueJinglun PhillipsDavid <1949->
Disciplina	361.610951
Soggetti	Public welfare - China China Social policy China Social conditions 2000- China Social conditions 1976-2000
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 21 Jan 2022).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. 1. Background and framework -- pt. 2. Key policy areas and well-being -- pt. 3. Conclusion.
Sommario/riassunto	This much-needed new textbook introduces readers to the development of China's welfare policies since its conception of an open-door policy in 1978. Setting out basic concepts and issues, including key terms and the process of policy making, it overcomes a major barrier to understanding Chinese social policy. The book explores in detail the five key policy areas of employment, social security, health, education and housing. Each is examined using a human well-being framework comprising both qualitative and quantitative data and eight dimensions: physical and psychological well-being, social integration, fulfilment of caring duties, human learning and development, self-determination, equal value and just polity. This enables the authors to provide not only factual information on policies but also an in-depth understanding of the impact of welfare changes on the quality of life of Chinese people over the past three

decades. A major strength of the book lies in its use of primary Chinese language sources, including relevant White Papers, central and local government policy documents, academic research studies and newspapers for each policy area. There are very few books in English on social policy in China, and this book will be welcomed both by academics and students of China and East Asian studies and comparative social policy and by those who want to know more about China's social development.

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