



Field induced First Order Phase Transition in magnetic systems

By Suryanarayan Dash

LAP Lambert Academic Publishing Jan 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x9 mm. Neuware - First order magnetic phase transition (FOMPT) in magnetic materials has been of numerous interests in recent past due to their unique functional properties like colossal magnetoresistance, giant magnetocaloric effect etc. Many of these functional magnetic materials are multicomponent systems whose properties become more interesting under substitutions. Such substitutions are the intrinsic source of frozen disorder which leads to the broadening of the first order transition. In this work role of chemical disorder has been studied in such functional oxides systems. Bulk measurement on these materials shows some anomalous feature at low temperature which were explained in terms of kinetic arrest which also responsible for the functionality of those materials. This work also gives an idea about the simultaneous effect of high pressure and magnetic field on such transition. Effect of magnetic field on the dielectric parameter of such functional oxides renders an important breakthrough. Moreover, similar studies been performed with shape memory alloys as an comparison. 148 pp. Englisch.



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