Phase Transitions and Hysteresis

By Augusto Visintin

Springer Okt 1994, 1994. Taschenbuch. Book Condition: Neu. 235x155x16 mm. This item is printed on demand - Print on Demand Titel. - 1) Phase Transitions, represented by generalizations of the classical Stefan problem. This is studied by Kenmochi and Rodrigues by means of variational techniques.2) Hysteresis Phenomena. Some alloys exhibit shape memory effects, corresponding to a stress-strain relation which strongly depends on temperature; mathematical physical aspects are treated in Müller's paper. In a general framework, hysteresis can be described by means of hysteresis operators in Banach spaces of time dependent functions; their properties are studied by Brokate.3) Numerical analysis. Several models of the phenomena above can be formulated in terms of nonlinear parabolic equations. Here Verdi deals with the most updated approximation techniques. 304 pp. Englisch.

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