



Singular Perturbations and Hysteresis

Alexei Pokrovskii, Vladimir Sobolev

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This book brings together many important recent developments in the analysis of singular perturbation and hysteresis phenomena in an accessible and comprehensive fashion. To bridge a gap between analysts of these phenomena, the editors conducted a workshop in April 2002 at University College Cork in Ireland to provide a forum for experts in both fields to share their interests and knowledge. For this book, the editors have compiled research from those practitioners in areas such as reacting systems, semiconductor lasers, shock phenomena in economic modeling, and fluid mechanics, all with an emphasis on hysteresis and singular perturbations. The book begins with a basic introduction to hysteresis and singular perturbation theory, including simple examples from both physics and mathematics. Later chapters address applications of hysteresis to economics, various aspects of the asymptotic theory of singularly perturbed systems, typical problems of the asymptotic theory of contrast structures, and the geometrical approach to an investigation of models with singular perturbations and hysteresis. The editors expect this text not only to be a useful and accessible introduction to techniques and the research literature but also to generate new ideas for researchers and to attract new researchers into this vibrant and dynamic field.

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