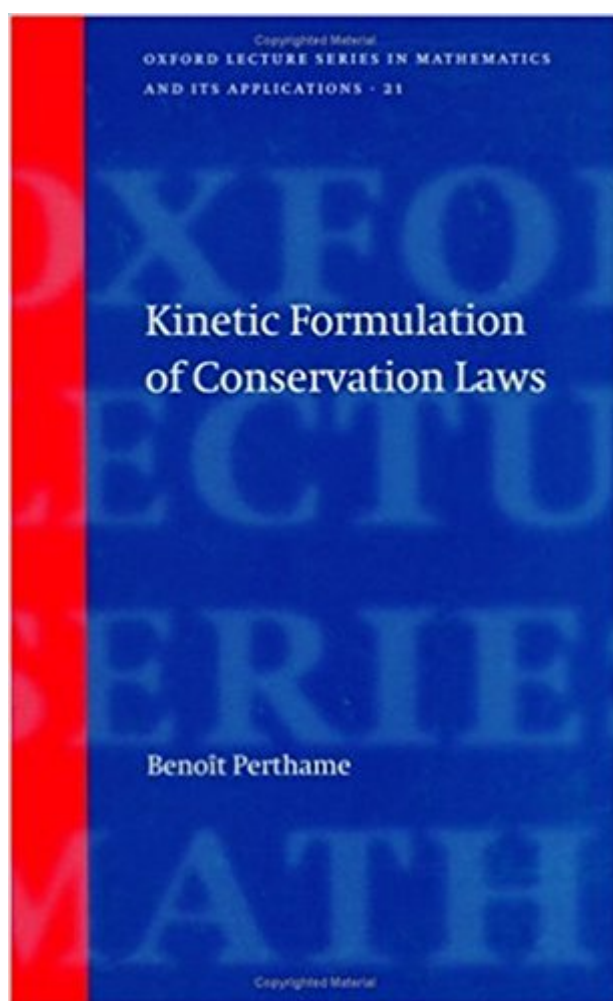The book was found

Kinetic Formulation Of Conservation Laws (Oxford Lecture Series In Mathematics And Its Applications)

Synopsis

This book gives a general presentation of the mathematical connections between kinetic theory and conservation laws based on several earlier works with P. L. Lions and E. Tadmor, as well as on more recent developments. The kinetic formalism approach allows the reader to consider Partial Differential Equations, such as some nonlinear conservation laws, as linear kinetic (or semi-kinetic) equations acting on a nonlinear quantity. It also aids the reader with using Fourier transform, regularisation, and moments methods to provide new approaches for proving uniqueness, regularizing effects, and a priori bounds.

Book Information

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"Kinetic Formulation has received wide attention and Perthame is the person most responsible for it." T-P Liu, Department of Mathematics, Stanford, CA"A well-known expert, who made some of the key breakthroughs in this area." A Bressan, SISSA, Trieste, Italy"It has been known within the community that Benoit Perthame is writing such a book. The book is anticipated from the community and expected to fill a gap in the literature." A Tzavaras, Department of Mathematics, University of Wisconsin-Madison

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