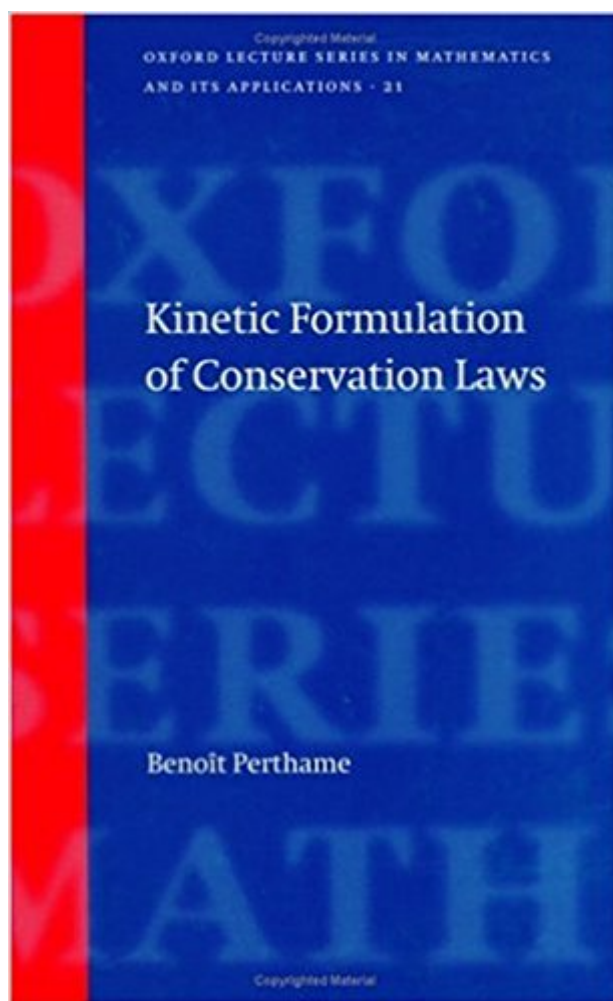


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Kinetic Formulation Of Conservation Laws (Oxford Lecture Series In Mathematics And Its Applications)



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

Series: Oxford Lecture Series in Mathematics and Its Applications (Book 21)

Hardcover: 216 pages

Publisher: Clarendon Press (February 13, 2003)

Language: English

ISBN-10: 0198509138

ISBN-13: 978-0198509134

Product Dimensions: 9.5 x 1.1 x 6.3 inches

Shipping Weight: 12.6 ounces (View shipping rates and policies)

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Prof. Benoit Perthame ENS/DMA 45, rue d'Ulm; F-75230 Paris Cedex 05 FRANCE 33-1-44322036 phone 33-1-44322080 fax benoit.perthame@ens.fr French, born France, June 23 1959

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