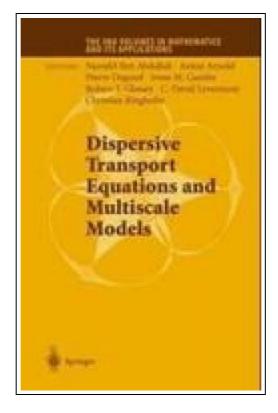
# Dispersive Transport Equations and Multiscale Models (Ima Volumes in Mathematics and Its Applications)



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### Reviews

This publication is very gripping and exciting. Better then never, though i am quite late in start reading this one. I am very happy to inform you that here is the finest pdfi actually have read inside my very own daily life and could be he greatest publication for actually.

(Dayana Aufderhar)

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Berlin Springer, 2003. Gebundene Ausgabe. Condition: Neu. Neu ungelesen, sehr guter Zustand; unused, very good condition; - IMA Volumes 135: Transport in Transition Regimes and 136: Dispersive Transport Equations and Multiscale Models focus on the modeling of processes for which transport is one of the most complicated components. This includes processes that involve a wdie range of length scales over different spatio-temporal regions of the problem, ranging from the order of mean-free paths to many times this scale. Consequently, effective modeling techniques require different transport models in each region. The first issue is that of finding efficient simulations techniques, since a fully resolved kinetic simulation is often impractical. One therefore develops homogenization, stochastic, or moment based subgrid models. Another issue is to quantify the discrepancy between macroscopic models and the underlying kinetic description, especially when dispersive effects become macroscopic, for example due to quantum effects in semiconductors and superfluids. These two volumes address these questions in relation to a wide variety of application areas, such as semiconductors, plasmas, fluids, chemically reactive gases, etc. Englisch.

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