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Scaling Limits Of Interacting Particle Systems (Grundlehren Der Mathematischen Wissenschaften)



Synopsis

This book has been long awaited in the "interacting particle systems" community. Begun by Claude Kipnis before his untimely death, it was completed by Claudio Landim, his most brilliant student and collaborator. It presents the techniques used in the proof of the hydrodynamic behavior of interacting particle systems.

Book Information

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Customer Reviews

"Das Buch ist nach Meinung des Rezensenten eine gelungene Einführung in ein interessantes Gebiet der modernen Stochastik und mathematischen Physik und stellt einen fest umrissenen Gegenstand umfassend dar, vor allem den analytisch-methodischen Aspekt. ... Die Beweise sind übersichtlich und gut gegliedert, was das Nachvollziehen der Argumente sehr erleichtert; die didaktische Leistung der Autoren in diesem Punkt ist beeindruckend. Ein sorgfältig zusammengestelltes Literaturverzeichnis von etwa 400 Titeln schließt das Buch ab. Insgesamt ein sehr gut geschriebener und netzlicher Band."DMV Jahresbericht, 103. Band, Heft 3, November 2001

This book provides an excellent and thorough introduction to the limit theory of interacting particle systems; with an assumption that the reader is familiar with the basic theory as found in (for example) Liggett. The whole development is geared towards deriving hydrodynamic limits, strongly based on the works of S.R.S Varadhan. The material is however as presented much too advanced

for a first graduate course on the subject because of the many dependencies on other advanced aspects of probability theory (e.g. Dirichlet forms, Large Deviations). There is a large collection (100 pages) of appendix matter covering some of these topics, but this material is better as a refresher than as an introduction! The book is sadly marred, through the publisher's failure to copy-edit the material adequately (which in the past was most unusual for a Springer publication), and gives the impression of being a book in the "Lecture Notes in Mathematics" series, which prints straight from author's camera ready copy, without professional publishing assistance. As a result the book in its current form seems overpriced. There are numerous notational inconsistencies, spelling and grammatical error, and poor English idiom (while English is not the native language of the authors, good copy-editing should have corrected this), poor typography from tex, and worst of all, an ABSYMAL index (two pages for a 400 page book). Unfortunately a combination of these facts makes the book hard to read, since much cross referencing ends up being needed. There is plenty of hope for a second edition.

It covers the subject quite extensively. It would be a good reference boook. Moreover, if one wants to know about the recent developments in research on interacting particle systems, then this is the one to look for.

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