

Lorenzo Pareschi
Giovanni Russo
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Modelling and Numerics of Kinetic Dissipative Systems



Modeling And Numerics Of Kinetic Dissipative Systems

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From Particle Systems to Partial Differential Equations III Patrícia Gonçalves, Ana Jacinta Soares, 2016-07-16 The main focus of this book is on different topics in probability theory partial differential equations and kinetic theory presenting some of the latest developments in these fields It addresses mathematical problems concerning applications in physics engineering chemistry and biology that were presented at the Third International Conference on Particle Systems and Partial Differential Equations held at the University of Minho Braga Portugal in December 2014 The purpose of the conference was to bring together prominent researchers working in the fields of particle systems and partial differential equations providing a venue for them to present their latest findings and discuss their areas of expertise Further it was intended to introduce a vast and varied public including young researchers to the subject of interacting particle systems its underlying motivation and its relation to partial differential equations This book will appeal to probabilists analysts and those mathematicians whose work involves topics in mathematical physics stochastic processes and differential equations in general as well as those physicists whose work centers on statistical mechanics and kinetic theory

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Trails in Kinetic Theory Giacomo Albi, Sara Merino-Aceituno, Alessia Nota, Mattia Zanella, 2021-07-15 In recent decades kinetic theory originally developed as a field of mathematical physics has emerged as one of the most prominent fields of modern mathematics In recent years there has been an explosion of applications of kinetic theory to other areas of research such as biology and social sciences This book collects lecture notes and recent advances in the field of kinetic theory of lecturers and speakers of the School Trails in Kinetic Theory

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Trujillo, 2012-01-27 The subject of fractional calculus and its applications that is convolution type pseudo differential operators including integrals and derivatives of any arbitrary real or complex order has gained considerable popularity and importance during the past three decades or so mainly due to its applications in diverse fields of science and engineering These operators have been used to model problems with anomalous dynamics however they also are an effective tool as filters and controllers and they can be applied to write complicated functions in terms of fractional integrals or derivatives of elementary functions and so on This book will give readers the possibility of finding very important mathematical tools for working with fractional models and solving fractional differential equations such as a generalization of Stirling numbers in the framework of fractional calculus and a set of efficient numerical methods Moreover we will introduce some applied topics in particular fractional variational methods which are used in physics engineering or economics We will also discuss the relationship between semi Markov continuous time random walks and the space time fractional diffusion equation which generalizes the usual theory relating random walks to the diffusion equation These methods can be applied in finance to model tick by tick log price fluctuations in insurance theory to study ruin as well as in macroeconomics as prototypical growth models All these topics are complementary to what is dealt with in existing books on fractional calculus and its

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