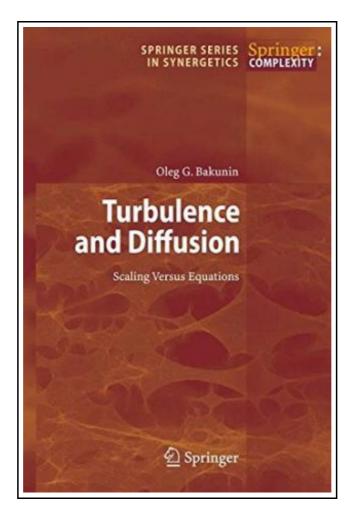
Turbulence and Diffusion: Scaling versus Equations



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(Hunter Witting)

TURBULENCE AND DIFFUSION: SCALING VERSUS EQUATIONS



Springer-Verlag Berlin and Heidelberg GmbH Co. KG, Germany, 2010. Paperback. Book Condition: New. 1st ed. Softcover of orig. ed. 2008. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. This book is intended to serve as an introduction to the multidisciplinary ?eld of anomalous diffusion in complex systems such as turbulent plasma, convective rolls, zonal ?ow systems, stochastic magnetic ?elds, etc. In spite of its great importance, turbulent transport has received comparatively little treatment in published mo- graphs. This book attempts a comprehensive description of the scaling approach to turbulent diffusion. From the methodological point of view, the book focuses on the general use of correlation estimates, quasilinear equations, and continuous time random walk - proach. I provide a detailed structure of some derivations when they may be useful for more general purposes. Correlation methods are ?exible tools to obtain tra- port scalings that give priority to the richness of ingredients in a physical pr- lem. The mathematical description developed here is not meant to provide a set of recipes for hydrodynamical turbulence or plasma turbulence; rather, it serves to develop the reader s physical intuition and understanding of the correlation mec- nisms involved.



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