



Stochastic Tools in Turbulence

By John L. Lumley

Dover Publications Inc., United States, 2008. Paperback. Book Condition: New. Reprint. 208 x 137 mm. Language: English . Brand New Book ***** Print on Demand *****.This accessible treatment offers the mathematical tools for describing and solving problems related to stochastic vector fields. Advanced undergraduates and graduate students will find its use of generalized functions a relatively simple method of resolving mathematical questions. It will prove a valuable reference for applied mathematicians and professionals in the fields of aerospace, chemical, civil, and nuclear engineering. The author, Professor Emeritus of Engineering at Cornell University, starts with a survey of probability distributions and densities and proceeds to examinations of moments, characteristic functions, and the Gaussian distribution; random functions; and random processes in more dimensions. Extensive appendixes which include information on Fourier transforms, tensors, generalized functions, and invariant theory contribute toward making this volume mathematically self-contained.

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