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Nota di contenuto	Application of central limit theorems to turbulence problems Probability limit theorems and some questions in fluid mechanics 1) Statistical problems connected with asymptotic solutions of the one- dimensional nonlinear diffusion equation Burger's equation: Generalizations and solutions A closure hypothesis for the hierarchy of equations for turbulent probability distribution functions Singular perturbation in some problems of Statistical Mechanics The bounding theory of turbulence and its physical significance in the case of turbulent couette flow Numerical simulation of turbulence Comparison of some approximations for isotropic turbulence Investigating the predictability of turbulent motion Use of C-M-W representations for nonlinear random process applications Homogeneous chaos expansions Non-analytic character of the shear-tensor distribution function in incompressible turbulence Dynamo instability and feedback in a stochastically driven system The statistical mechanics of the guiding centre plasma Strange attractors as a mathematical explanation of turbulence Random geometric problems suggested by turbulence Simple and compound line growth in random walks The mixing of scalar stripes by an isotropic ensemble of single velocity modes Possible refinement of the lognormal hypothesis concerning the distribution of energy

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dissipation in intermittent turbulence -- Some observed properties of atmospheric turbulence -- Some measurements of the fine structure of large reynolds number turbulence -- Statistical self-similarity and inertial subrange turbulence -- Observations of the variability of dissipation rates of turbulent velocity and temperature fields --Probability distributions in turbulent fields -- Turbulence in a stratified ocean -- Spectra changing over narrow bands -- Some recent advances in time series analysis.