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The Theory of Homogeneous Turbulence (Paperback)

By G. K. Batchelor

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 1982.
 Paperback. Book Condition: New. Reprint. 218 x 80 mm.
 Language: English Brand New Book ***** Print on Demand
 *****. This is a reissue of Professor Batchelor's text on the
 theory of turbulent motion, which was first published by
 Cambridge University Press in 1953. It continues to be widely
 referred to in the professional literature of fluid mechanics, but
 has not been available for several years. This classic account
 includes an introduction to the study of homogeneous
 turbulence, including its mathematic representation and
 kinematics. Linear problems, such as the randomly-perturbed
 harmonic oscillator and turbulent flow through a wire gauze,
 are then treated. The author also presents the general
 dynamics of decay, universal equilibrium theory, and the
 decay of energy-containing eddies. There is a renewed interest
 in turbulent motion, which finds applications in atmospheric
 physics, fluid mechanics, astrophysics, and planetary science.



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