

The structure of turbulent shear flow

Second edition

A.A.TOWNSEND



Structure Of Turbulent Shear Flow

A. A. Townsend



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The Structure of Turbulent Shear Flow A. A. R. Townsend, 1976 Develops a physical theory from the mass of experimental results with revisions to reflect advances of recent years *A Structure of Turbulent Shear Flow* A. A. Townsend, 1956 **The Structure of Turbulent Shear Flow**, 1976 **The structure of turbulent shear flow** Philip John Morris, 1971 **The Structure of Turbulent Shear Flow** Rajendra Sharma, 1968 A Study of the Structure of Turbulent Shear Flow in Pipes William Alfred Brookshire, 1961 **Structure of Turbulent Shear Flows** Anatol Roshko, 1976 *Structure of Complex Turbulent Shear Flow*, **On the Fine Structure in Turbulent Shear Flows** B. R. Satyaprakash, 1982 **On the Large-Scale Structure in Turbulent Free Shear Flows** J. T. C. Liu, A. Alper, BROWN UNIV PROVIDENCE R I DIV OF ENGINEERING., 1977 The existence of organized structures in turbulent shear flow has been the subject of recent observational discoveries in both the laboratory and in the atmosphere and ocean The recent work on modeling such structures in a temporally developing horizontally homogeneous turbulent free shear layer has been extended to the spatially developing mixing layer there being no available rational transformation between the two nonlinear problems The basis for the consideration is the kinetic energy development of the mean flow large scale structure and fine grained turbulence with a conditional average supplementing the usual time average to separate the nonrandom from the random part of the fluctuations The integrated form of the energy equations and the accompanying shape assumptions is used to derive amplitude equations for the mean flow characterized by the shear layer thickness the nonrandom and random components of flow which are characterized by their respective energy densities In general the large scale structure augments the spreading of the shear layer and enhances the fine grained turbulence by taking energy from the mean flow and transferring it to the turbulence as it amplifies and subsequently decays The maximal amplitude of the large scale structure is attained by the initially most amplified mode however the relative enhancement of the fine grained turbulence is achieved by both the magnitude of the large scale structure and its streamwise lifetime Thus a greater enhancement of the turbulence is achievable by the lower frequency modes which have longer streamwise lifetimes The large scale structure can also be controlled by increasing the initial level of turbulence which would render its decay more rapidly Author

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