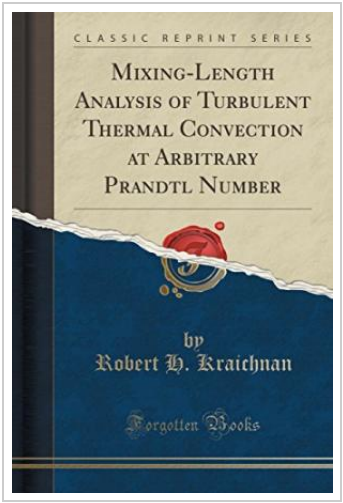

Mixing-Length Analysis of Turbulent Thermal Convection at Arbitrary Prandtl Number (Classic Reprint) (Paperback)

By Robert H Kraichnan

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Mixing-Length Analysis of Turbulent Thermal Convection at Arbitrary Prandtl Number Priestley s theory is concerned with statistically steady state turbulent convection in a horizontally infinite layer of fluid. It is assumed that at sufficiently large Rayleigh number most of the change in mean temperature across the layer occurs in thin boundary regions, at the surfaces, where molecular heat con duction and molecular viscosity are dominant. Elsewhere in the fluid, it is assumed that convective heat transport and eddy viscosity are dominant. The theory leads to qualitative predic tions for the total heat transport and for the structure of the mean temperature field, fluctuating temperature field, and velocity field. All of the predicted functional forms and orders of magnitude are independent of Prandtl number. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such...

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