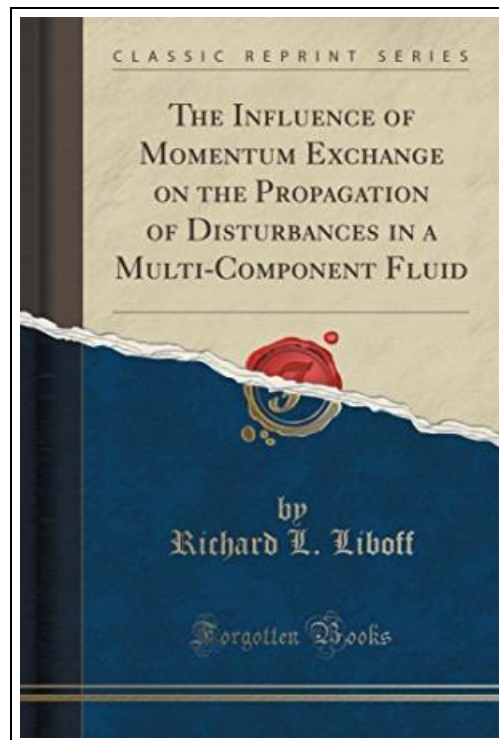


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Forgotten Books, United States, 2016. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from The Influence of Momentum Exchange on the Propagation of Disturbances in a Multi-Component Fluid When investigating the fluctuations associated with a multi-component fluid a very popular course of action used to couple the components is to use momentum exchange terms in the equations of motion. This is true both in the microscopic vein where the formidable collision integrals are replaced with simpler difference-in-velocity flow terms, and it is especially true in the macroscopic approach where the individual momentum equations are supplanted with inhomogeneous momentum exchange terms. This latter approach has recently been extended to analysis of partially ionized gases [6-11] three-component fluids) with specific regard to problems pertaining to ionospheric propagations. In all of these problems an important goal is that of recapturing the multi - component sound speed. It is the purpose of this paper to show that any analysis of wave propagation in a multi-component fluid whose only interaction mechanism is one of momentum exchange will exhibit only strongly damped modes, and consequently can not support the proper (undamped in one dimension) multi-component sound phenomenon. This observation. 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 as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

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