

Excerpt from Spherical Waves and Shocks The propagation of weak spherical waves and shocks will be described following the method of Faf. L, in which the shocks occurring in steady supersonic flow past an axisymmetrical body were determined. The direct analogy to the latter problem is the propagation of cylindrical shocks; but the case of spherical symmetry is similar. The starting point of this method is the linearized theory, which in this case is the simple acoustic theory. The linear results, although extremely valuable for certain purposes, become inadequate to describe the propagation after some time since they do not give the correct spreading out of the wave; the linearized theory does not allow for the variation in the sound speed or for the connection of sound with the fluid, and as time goes on these small variations accumulate. Moreover, shocks, which play an important part in the flow, cannot be included in such a theory. However, these defects can be corrected to give a valid description of the non-linear propagation; this is the basis of the present theory. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com 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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