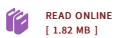# Discontinuous Initial Value Problems and Asymptotic Expansion of Steady-State Solutions (Classic Reprint) (Paperback)

By Professor Robert M Lewis

Forgotten Books, 2018. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Discontinuous Initial Value Problems and Asymptotic Expansion of Steady-State Solutions Discontinuous solutions of hyperbolic partial differential equations have often been treated in the mathematical literature. The earlier treat ments dealt mainly with second order equations (see e.g. [l], Recently R. Courant and p.d. Lax[3] extended the theory to first order linear hyper bolic systems and proved an existence theorem for discontinuous solutions of initial value problems. In Part I of this paper we generalize the theory of Courant and Lax in two respects. First we consider more general equations. This generalization is not without interest for it permits the inclusion of some important equations of mathematical physics: $ Second we consider initial boundary value problems rather than pure initial value problems. 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...

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