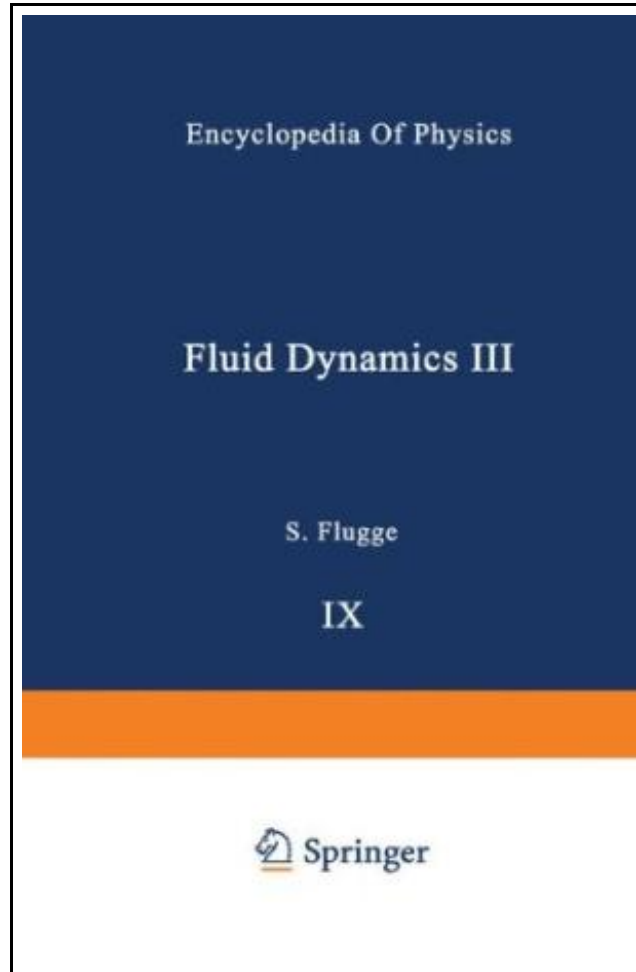


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Reviews

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(Hunter Witting)

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Book Condition: New. Publisher/Verlag: Springer, Berlin | Sect 2. 317 tinuity surfaces 1. This suggests that a wake pressure P_w be associated with each flow past a bluff body, and that a wake parameter (2. 4) which plays the same role as the cavitation parameter (2. 1), be defined for the flow. This idea has been made the basis of a modified wake theory (ef. Sect. 11) which proves to be in good quantitative agreement with pressure and drag measurements. It should be emphasized, however, that unlike the cavitation number, the wake parameter is a quantity which is not known a priori, and must be empirically determined in each case. (3) Jet flows. The problem of jet efflux from an orifice is one of the oldest in hydrodynamics and the first to be treated by Fig. 3a. the HELMHOLTZ free streamline theory. Of particular importance for engineering applications is the discharge coefficient C_d ; which is defined in terms of the discharge Q per unit time, the pressure P , and the cross-sectional area A of the orifice, by the formula, (2. 5) where ρ is the fluid density. Two methods of measuring C_d have been most frequently adopted. In the first the liquid issues from an orifice in a large vessel under the influence of gravity g , (Fig. 3 a), while in the second it is forced out of a nozzle or pipe under high pressure (Fig. 3 b). | Analytical Theory of Subsonic and Supersonic Flows.- I. Physical and mathematical foundations.- II. Linearized theory.- III. The hodograph method.- IV. The analytical theory of two-dimensional subsonic flows.- V. The analytical theory of two-dimensional transonic flows.- General references and textbooks.- Théorie des ondes de choc.- A. Les équations des phénomènes de choc.- a) Introduction.-...



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