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Introduction To Theoretical Hydrodynamics

It is one of the streamlines that 67 Chapter\_4.indd 67 07/06/11 1:38 PM f68 Introduction to Theoretical Aerodynamics and Hydrodynamics y = Fig. 4.1  $Q + C_2 x$  Streamlines generated by a free stream and a line source. passes through the stagnation point (point of zero velocity) at  $x = \frac{Q}{2U}$  and  $y = 0$ .

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This classic text offers a thorough, clear and methodical introductory exposition of the mathematical theory of fluid motion, useful in applications to both hydrodynamics and aerodynamics. Departing radically from traditional approaches, the author bases the treatment on vector methods and notation with their natural consequence in two dimensions — the complex variable.

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Theoretical Hydrodynamics Fourth Edition. by. Milne Thomson L.N. Publication date. 1962/00/00. Topics. NATURAL SCIENCES, Physics, Fluid mechanics in general. Mechanics of liquids (hydromechanics) Publisher.

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It also serves as an introduction to more specialized research methods. It unifies the seemingly diverse problems of marine hydrodynamics by examining them not as separate problems but as related applications of the general field of hydrodynamics. The book evolved from a first-year graduate course in MIT's Department of Ocean Engineering.

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