



## Applied Hydro- and Aeromechanics

By Ludwig Prandtl, O. G. Tietjens

Dover Publications Inc., United States, 2012. Paperback. Book Condition: New. 213 x 137 mm.

Language: English . Brand New Book. Based on the famous series of lectures given at Gottingen by Professor Prandtl and enlarged with additional material on experimental methods by O. G. Tietjens, this volume presents practical applications of theoretical hydro- and aeromechanics. The methods it deals with can easily be followed by engineers, although advanced mathematics is used in the sections on airfoil. Coverage is wide, ranging from an introduction to flow in pipes to Dr. Prandtl's own work on boundary layers, drag, airfoil theory, and experimental methods. Of special interest are discussions of entry conditions for flow in a pipe; turbulent flow in pipes and in the boundary layer; the method of determining the drag of a body from the velocity and pressure of the wake; measurement of pressure drop at the transition between laminar and turbulent flow; the laws of pressure drag, friction drag, and deformation drag; application of the momentum theorem to the Karman trail; experiments with the properties of slotted wings; the airfoil of infinite length; three-dimensional airfoil theory; and experimental methods and apparatus (pressure and velocity measurements, drag measurements, wind tunnels,...



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Project Euclid. mathematics and statistics online. Help. Contact.Â Volume 41, Number 3 (1935), 173-174. Review: O. G. Tietjens, Applied Hydro- and Aeromechanics, based on Lectures by L. Prandtl. F. D. Murnaghan. More by F. D. Murnaghan. Featuring the latest technologies and developments affecting the field, Applied Hydro-aeromechanics in Oil and Gas Drilling covers topics including: The physics of hydro-aeromechanical phenomena in drilling processes. Calculation methods for understanding and designing circulation systems for the washing, blasting, and cementing of wells. Problems of interaction between wells and reservoirs. Problems with the fluid, gas, and liquid-gas mixture flows necessary in designing and building of wells. Presenting an unmatched combination of theory, modeling issues, and concrete, illustrative examples, Featuring the latest technologies and developments affecting the field, Applied Hydro-aeromechanics in Oil and Gas Drilling covers topics including: The physics of hydro-aeromechanical phenomena in drilling processes. Calculation methods for understanding and designing circulation systems for the washing, blasting, and cementing of wells. Problems of interaction between wells and reservoirs. Problems with the fluid, gas, and liquid-gas mixture flows necessary in designing and building of wells. Presenting an unmatched combination of theory, modeling issues, and concrete, illustrative examples, Applied Hydro- and Aeromechanics book. Read reviews from worldâ€™s largest community for readers. Based on the famous series of lectures given at GÃttingen...Â Weâ€™d love your help. Let us know whatâ€™s wrong with this preview of Applied Hydro- and Aeromechanics by Ludwig Prandtl. Problem: Itâ€™s the wrong book Itâ€™s the wrong edition Other. hydro-aeromechanics and applied hydraulics. Let us point out the most significant results of hydro-aeromechanics in drilling. Rheological equations formulated for viscous fluids by Newton in 1685 (Krilow, 1936), for viscous-plastic media by Shvedoff in 1889 (Reiner, 1960) and Bingham in 1916 (Bingham, 1922), and for pseudoplastic media by Ostwald in 1924 (Reiner, 1960) are of profound importance in solving problems of drilling hydro-aeromechanics.Â Hydro-aeromechanic processes in drilling occur in the well-bed system consisting in the simplest case of two parts: circulation system of the well along which fluid, gas, or their mixture including rigid particles flow and one or several opened up bed formations.