

TECHNICAL PUBLICATIONS

OF

SIMON OSTRACH

Theses:

1. Ostrach, S.: A Thermodynamic Analysis of the Turbo- Propeller Engine Cycle, Thesis for Professional Degree of Mechanical Engineer, University of Rhode Island, 1949.
2. Ostrach, S.: On the Stability of Flow in High Speed Wind Tunnels, Thesis for Sc.M. in Applied Mathematics, Brown University, 1949.
3. Ostrach, S.: A Boundary Layer Problem in the Theory of Free Convection, Thesis for Ph.D. in Applied Mathematics, Brown University, 1950.

Editorship:

1. Ostrach, S. and Scanlan, R.: Editors, DEVELOPMENT IN MECHANICS, Vol. I and II, Proc. of Eighth Midwestern Mechanics Conference, Pergamon Press, N. Y., 1965.
2. Ostrach, S.: Editor, International Series of Monographs on Interdisciplinary and Advanced Topics in Science and Engineering, Vol. I, FOUNDATIONS OF THE NON-LINEAR MECHANICS OF CONTINUA by L. I. Sedov, Pergamon Press, 1966.
3. Ostrach, S.: Editor, International Series of Monographs on Interdisciplinary and Advanced Topics in Science and Engineering, Vol. III, SEPARATION OF FLOW by P. K. Chang, Pergamon Press, 1970.

Articles and Papers:

1. Ostrach, S.: Lifting Surfaces in Supersonic Flow, Pt. I--Two Dimensional Theory, Monograph VIII, Tech. Rept. No. 102-AC49/7-100, Air Material Command, Wright-Patterson Air Force Base, 1949.
2. Ostrach, S.: An Analysis of Laminar Free-Convection Flow and Heat Transfer about a Flat Plate Parallel to the Direction of the Generating Body Force, NACA Report I111, 1953 (Supersedes NACA Technical Note 2635, 1951).

3. Ostrach, S.: Laminar Natural Convection Flow and Heat Transfer of Fluids With and Without Heat Sources in Channels with Constant Wall Temperature, NACA TN 2863, 1952.
4. Ostrach, S.: New Aspects of Natural-Convection Heat Transfer, Transactions of ASME, Vol. 75, No. 7, pp. 1287-1290, Oct., 1953.
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7. Ostrach, S.: On the Flow, Heat Transfer, and Stability of Viscous Fluids Subject to Body Forces and Heated from Below in Vertical Channels, 50 Jahre Grenzschichtforschung, Edited by Profs. H. Gortier and W. Tollmien, 1955.
8. Ostrach, S.: Unstable Convection in Vertical Channels with Heating from Below, Including the Effects of Heat Sources and Frictional Heating, NACA TN 3458, 1955.
9. Ostrach, S.: Compressible Laminar Boundary Layer and Heat Transfer for Unsteady Motions of a Flat Plate, NACA TN 3569, 1955.
10. Ostrach, S. and Moore, F. K.: Effect of Transverse Body Force on Channel Flow with Small Heat Addition, NACA TN 3594, 1956.
11. Moore, F. K. and Ostrach, S.: Average Properties of Compressible Laminar Boundary Layer on Flat Plate with Unsteady Flight Velocity, NACA TN 3886, 1956.
12. Ostrach, S.: Convection Phenomena in Fluids Heated from Below, Trans. of the ASME, Vol. 79, No. 2, pp. 299-307, 1957.
13. Moore, F. K. and Ostrach, S.: Displacement Thickness of Unsteady Boundary Layer, Jour. Aero. Sci., Vol. 24, No. 1, Jan., 1957.
14. Maslen, S. H. and Ostrach, S.: Note on the Aerodynamic Heating of an Oscillating Insulated Surface, Quarterly of Applied Math, Vol. 15, No. 1, April, 1957.
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17. Ostrach, S.: Internal Viscous Flows with Body Forces, General Lecture Presented at the Symposium on Boundary Layer Research Sponsored by the International Union of Theoretical and Applied Mechanics in Freiburg, Germany and Published in the Book, "Boundary Layer Research," Edited by H. Gortler, Springer-Verlag, Germany, 1958.
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20. Ostrach, S., Goldstein, A. W., and Hamman J.: Effect of a Deceleration Force on a Melting Layer, Jour. Aerospace Sci., Vol. 27, No. 8, pp. 626-627, August, 1960.
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