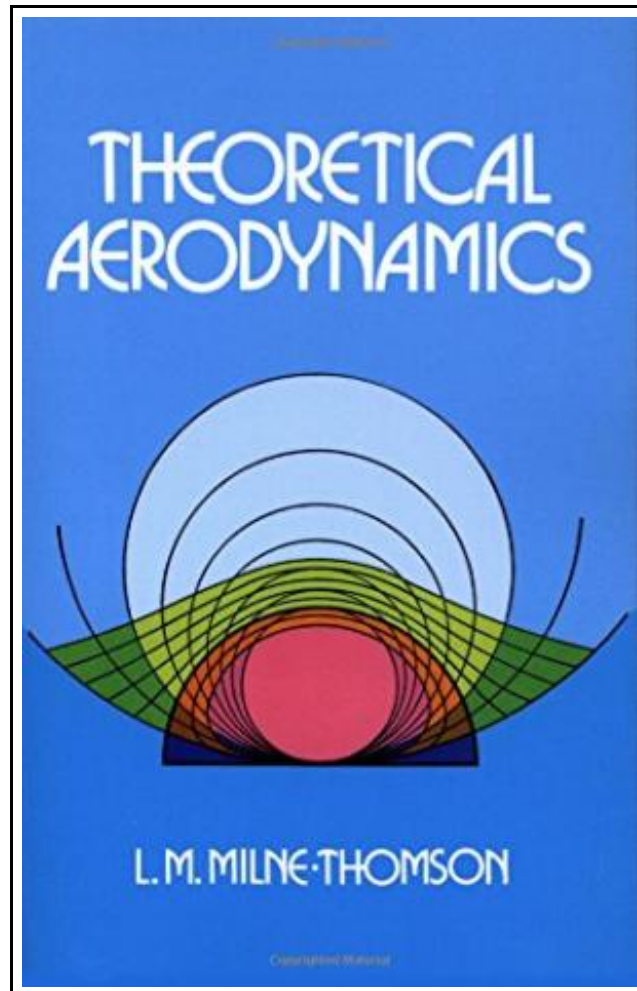# Theoretical Aerodynamics Dover Books on Aeronautical Engineering

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Dover Publications. Paperback. Book Condition: New. Paperback. 464 pages. Dimensions: 8.5in. x 5.4in. x 0.9in.A classic in its field, this university text and reference book has long been one of the basic works. This is the complete reprinting of the revised (1966) edition which brings the subject up to date, including a complete and probably unique chapter on conical flow round sweptback wings. After two introductory chapters on the simplifying assumptions demanded for the study and a final chapter on vectors, the author treats the material in four fairly well-defined parts: (1) two-dimensional aerofoils (two-dimensional motion, rectilinear vortices, the circular cylinder as an aerofoil, Joukowskis transformation, theory of two-dimensional aerofoils, and thin aerofoils); (2) three-dimensional aerofoils (induced velocity, aerofoils of finite aspect ratio, the lifting line theory, lifting surface theory, propellers, and wind tunnel corrections); (3) subsonic and supersonic flow (subsonic flow, supersonic flow, supersonic sweptback and delta wings); and, (4) the aircraft as a whole (simple flight problems, moments, and stability). The treatment is founded on complex variable and vector methods, both of which are explained in the self-contained text. A wealth of problems, illustrations, and cross-references add to the books value both as a text and a reference. The only prerequisite is a knowledge of the elements of the differential and integral calculus. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Paperback.

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