



Theory of Wing Sections (Paperback)

By Ira H. Abbott, A. E. Von Doenhoff

Dover Publications Inc., United States, 1960. Paperback. Book Condition: New. New edition. 214 x 149 mm. Language: English. Brand New Book. Most useful in working with wing sections and methods for using section data to predict wing characteristics . . . much detailed geometric and aerodynamic data. -- Mechanical Engineering The first edition of this work has been corrected and republished in answer to the continuing demand for a concise compilation of the subsonic aerodynamics characteristics of modern NASA wing sections together with a description of their geometry and associated theory. These wing sections, or their derivatives, continue to be the ones most commonly used for airplanes designed for both subsonic and supersonic speeds, and for helicopter rotor blades, propeller blades, and high performance fans. Intended to be primarily a reference work for engineers and students, the book devotes over 300 pages to theoretical and experimental considerations. The theoretical treatment progresses from elementary considerations to methods used for the design of NACA low-drag airfoils. Methods and data are presented for using wingsection data to predict wing characteristics, and judiciously selected plots and crossplots of experimental data are presented for readily useful correlation of certain simplifying assumptions made in the...



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