

Aircraft Performance and Sizing, Volume I: Fundamentals of Aircraft Performance: 1

By Timothy Takahashi

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This book is a concise, practical treatise for the student or experienced professional aircraft designer. This first volume comprises key fundamental subjects for aerodynamic performance analysis: the basics of flight mechanics bridging both engineering and piloting perspectives, propulsion system performance attributes, practical drag prediction methods, aircraft “up and away” flight performance, and aircraft mission performance. This book may serve as a textbook for an undergraduate aircraft performance course or as a reference for the classically trained practicing engineer.

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Editorial Review

About the Author
Dr. Timothy Takahashi is a professor of practice for aerospace engineering in the School for the Engineering of Matter, Transport and Energy at Arizona State University. He holds a PhD in mechanical and aerospace sciences from the University of Rochester and a JD in high technology law from Santa Clara University. At Arizona State University, he teaches aircraft performance, aerodynamics, aerospace structures & materials, as well as coordinating senior undergraduate capstone projects in fixed wing aircraft design. Prior to joining ASU, he worked at NASA/Ames, Lockheed Martin, Raytheon, and Northrop Grumman. Dr. Takahashi is an associate fellow of the American Institute of Aeronautics and Astronautics, a member of the Multi-Disciplinary-Optimization and Aircraft Design Technical Committees, and a prolific author and co-author of AIAA conference papers.

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