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1.4.2 Dimensional analysis applied to aerodynamic force In

discussingaerodynamicforce it is necessaryto know how the dependent variables,aerodynamic force ... individual impacts They appear as a steady force on the area The intensity of this 'molecular bombardment' force is the

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static pressure 6 Aerodynamics for Engineering Students Very frequently the static...

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to prepare innovative and entrepreneurial
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in the context of engineering practice, that
is, Conceiving, Designing, Implementing, and
Operating (CDIO) through the entire lifecycle
of engineering processes, products, and
systems. The book is both a description of
the development and implementation of the
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Update

Aerodynamics and Aircraft Performance, 3rd edition is a college undergraduate-level introduction to aircraft aerodynamics and performance. This text is designed for a course in Aircraft Performance that is taught before the students have had any course in fluid mechanics, fluid dynamics, or aerodynamics. The text is meant to provide the essential information from these types of courses that is needed for teaching basic subsonic aircraft performance.

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"The study of aerodynamics is a challenging and rewarding discipline within aeronautics since the ability of an airplane to perform (how high, how fast, and how far an airplane will fly, such as the F-15E shown in Fig. 1.1) is determined largely by the aerodynamics of the vehicle. However, determining the aerodynamics of a vehicle (finding the lift and drag) is one of the most difficult things you will ever do in engineering, requiring complex theories, experiments in wind tunnels, and simulations using modern highspeed computers. Doing any of these things is a challenge, but a challenge well worth the effort for those wanting to better understand aircraft flight"--

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attitude dynamics, including new Matlab algorithms and examples in chapter 10 New examples and homework problems

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