

Flight Vehicle Aerodynamics

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Flight Vehicle Aerodynamics

"Flight Vehicle Aerodynamics" captures his latest efforts to move from 2D vortex panel method to 3D vortex lattice method in the AVL code. By considering aircraft performance during various manouvres this approach is absolutely relevant to aircraft optimisation - even in a world where freeware CFD codes such as Open Foam make serious aerodynamic investigation available to projects on a limited budget.

Flight Vehicle Aerodynamics (The MIT Press): Drela, Mark ...

The book is based on the MIT graduate-level course "Flight Vehicle Aerodynamics" and has been developed for use not only in conventional classrooms but also in a massive open online course (or MOOC) offered on the pioneering MOOC platform edX. It will also serve as a valuable reference for professionals in the field.

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Aerodynamics involves the study of local pressures generated over the vehicle while in flight and the resultant integrated forces and moments that, when coupled with forces such as gravity and engine thrust, determine how a spacecraft will fly. Aerothermodynamics focuses on heating to the spacecraft's surface during flight. This information is used

Aerodynamics and Flight The wings allowed the spacecraft ...

Flight Vehicle Performance and Aerodynamic Control is designed to serve as a text for either an 11-week or a 16-week course at the sophomore level. It explains typical methods used to estimate aircraft performance, the theoretical basis of these methods, and how various parameters derived from the aircraft geometry can be used to estimate the requirements of control surfaces and the aerodynamic forces required to actuate these surfaces.

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Introduction to hypersonic vehicle design from a historical perspective, hypersonic flight vehicle programs in the US are traced from the early 60's to current active programs. Design Challenges. Major hypersonic vehicle design and performance challenges will be reviewed, such as: large variations in aerodynamic and propulsion response with Mach number; extreme thermal environments that drive material options, structural concepts and thermal protection/management, configuration impacts of ...

Hypersonic Flight Vehicle Design and Performance Analysis ...

16.110 Flight Vehicle Aerodynamics. Prereq: 16.100 or permission of instructor G (Fall) 3-1-8 units. Aerodynamic flow modeling and representation techniques. Potential farfield approximations. Airfoil and lifting-surface theory. Laminar and turbulent boundary layers and their effects on aerodynamic flows. Nearfield and farfield force analysis.

Department of Aeronautics and Astronautics < MIT

The following report summarizes the findings of a six month research investigation of the 'mesicopter' concept, a flying vehicle with dimensions of about two and a half centimeters. Research focused on low Reynolds number aerodynamics, motor and power system design, and meso scale fabrication methods. Our work resulted in the design, component fabrication, and assembly of two

The Mesicopter: A Meso-Scale Flight Vehicle | Nanoscale ...

About Flight Vehicle Aerodynamics An overview of the physics, concepts, theories, and models underlying the discipline of aerodynamics. This book offers a general overview of the physics, concepts, theories, and models underlying the discipline of aerodynamics.

Flight Vehicle Aerodynamics by Mark Drela: 9780262526449 ...

Aerodynamics seeks, in particular, to explain the principles governing the flight of aircraft, rockets, and missiles. It is also concerned with the design of automobiles, high-speed trains, and ships, as well as with the construction of such structures as bridges and tall buildings to determine their resistance to high winds.

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