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aerodynamics propulsion michigan aerospace engineering Jan 27 2020 aerodynamics and propulsion involve the study of flows either around aerodynamic bodies external flows aerodynamics or fluid dynamics or through engines internal flows or propulsion research in the group focuses on employing advanced diagnostics to study both the fundamentals of turbulent combustion and its application to propulsion

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drag physics wikipedia Nov 17 2021 in aerodynamics wave drag consists of multiple components depending on the speed regime of the flight in transonic flight mach numbers greater than about 0 8 and less than about 1 4 wave drag is the result of the formation of shockwaves in the fluid formed when local areas of supersonic mach number greater than 1 0 flow are created

parasitic drag wikipedia Dec 26 2019 parasitic drag also known as profile drag 254 256 is a type of aerodynamic drag that acts on any object when the object is moving through a fluid parasitic drag is a combination of form drag and skin friction drag 641 642 19 it affects all objects regardless of whether they are capable of generating lift total drag on an aircraft is made up of parasitic drag and lift induced drag

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angle of incidence aerodynamics wikipedia Mar 21 2022 on fixed wing aircraft the angle of incidence sometimes referred to as the mounting angle or setting angle is the angle between the chord line of the wing where the wing is mounted to the fuselage and a reference axis along the fuselage often the direction of minimum drag or where applicable the longitudinal axis the angle of incidence is fixed in the design of the aircraft

atmosphere of earth wikipedia Sep 22 2019 the exosphere is the outermost layer of earth s atmosphere i e the upper limit of the atmosphere it extends from the thermopause at the top of the thermosphere at an altitude of about 700 km above sea level to about 10 000 km 6 200 mi 33 000 000 ft where it merges into the solar wind this



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