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are powered by turboprop engines. These engines are quite reliable, providing years of trouble-free service. However, because of the ... the basics of airplane engine operational theory. This text will also provide

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the time and funds. Students will have the time giving

Aircraft weight and balance, determining takeoff distance, cruise performance, and landing distance are addressed in turn. Each lesson guide is presented in the format of a Flight Instructor's Manual used by aircraft

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AERODYNAMICS AND THEORY OF FLIGHT; AERODYNAMICS AND THEORY OF FLIGHT. ... Ground effect is a term used to describe the reduced drag and increased lift experience when an aircraft is flying close to the ground—as is the case, for example, during landings and takeoffs; the reduced drag associated with ground effect is the result of the ground ...

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of the previous manned supersonic aircraft. It is a very short list. It is important for aerodynamic ... required aerodynamic performance the wings were thin, 4.08% at the tip and 3.46% at the root. In 1962 the B-58 flew 1300 mph for 30 minutes and 43 seconds, thus being the first airplane to ...

10. Supersonic Aerodynamics

Energy-maneuverability theory is a model of aircraft performance. It was developed by Col. John Boyd, a fighter pilot, and Thomas P. Christie a mathematician with the Air Force, and is useful in describing an aircraft's performance as the total of kinetic and potential energies or aircraft specific energy.

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