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calculation and optimisation of flight performance is required to design or select new aircraft efficiently operate existing aircraft and upgrade aircraft it provides critical data for aircraft certification accident investigation fleet management flight regulations and safety this book presents an unrivalled range of advanced flight performance models for both transport and military aircraft including the unconventional ends of the envelopes topics covered include the numerical solution of supersonic acceleration transient roll optimal climb of propeller aircraft propeller performance long range flight with en route stop fuel planning zero gravity flight in the atmosphere vstol operations ski jump from aircraft carrier optimal flight paths at subsonic and supersonic speed range payload analysis of fixed and rotary wing aircraft performance of

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beginning with a summary of the mechanics of flight this book goes on to cover various aspects such as air and airflow aerofoils thrust level flight gliding landing etc it will continue to be an excellent text for all student pilots

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