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This popular text gives mechanical engineering and aeronautical engineering students a useful introduction to the subject. The fourth edition has been updated to include important recent developments such as unmanned air vehicles and the low orbit space-plane.

This revised and updated edition provides a clear and non-mathematical description of the principles of aerodynamics and mechanics of flight. Taking a qualitative rather than quantitative approach, the text provides material for courses from technician to degree level. The text contains examples of recent innovations, and although it excludes mathematical analysis, the study does provide one or two simple formulae as a means of defining important terms, such as lift

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Mechanics of Flight is an ideal introduction to the basic principles of flight for students embarking on courses in aerospace engineering, student pilots, apprentices in the industry and anyone who is simply interested in aircraft and space flight. Written in a straightforward and jargon-free style, this popular classic text makes the fascinating topic of aircraft flight engaging and easy to understand. Starting with an overview of the relevant aspects of mechanics, the book goes on to cover topics such as air and airflow, aerofoils, thrust, level flight, gliding, landing, performance,

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manoeuvres, stability and control. Important aspects of these topics are illustrated by a description of a trial flight in a light aircraft. The book also deals with flight at transonic and supersonic speeds, and finally orbital and space flight.

This book is intended to provide a description on the principles of aircraft flight in physical rather than mathematical terms. The authors have included some of the more important practical aspects of aircraft flight plus examples of innovations, descriptions of which are generally only found scattered in assorted technical journals. two simple formulae as a means of defining important terms such as lift coefficient and Reynolds number, which are essential to the understanding of aeronautics. important, or

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interesting. They have also restricted coverage to the aerodynamics and mechanics of flight, with only a brief consideration of other aspects such as structural influences. interested in aircraft or contemplating a career in aeronautics. Students of aeronautical engineering should find it helpful as introductory and background reading. It should also be useful to employees in the industry such as flight crew and ground staff. physical science and is at least vaguely familiar with concepts such as energy and momentum.

Mechanics of Flight is an ideal introduction to the basic principles of flight for students embarking on courses in aerospace engineering, student pilots, apprentices in the

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industry and anyone who is simply interested in aircraft and space flight. Written in a straightforward and jargon-free style, this popular classic text makes the fascinating topic of aircraft flight engaging and easy to understand. Starting with an overview of the relevant aspects of mechanics, the book goes on to cover topics such as air and airflow, aerofoils, thrust, level flight, gliding, landing, performance, manoeuv.

This text provides a comprehensive introduction to road vehicle aerodynamic design for students, engineers and designers working in the automotive field

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This is the latest edition - fully revised and updated - of the standard textbook on aerodynamic theory, as applied to model flight. Everything is explained in a concise and

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practical form for those enthusiasts who appreciate that a better understanding of model behaviour is the sure path to greater success and enjoyment, whether just for fun or in competition. The revisions for this new edition reflect the significant developments in model aircraft during the last few years, and include brand new data: * The chapter on aerofoils has been rewritten to take account of the vast amount of testing carried out recently in the USA by the University of Illinois. * A brand new chapter explains the latest research into the flight of birds and insects and how it is applied to small drones and model-sized surveillance aircraft. * Older wind tunnel test reports all replaced with the latest trials and measurements.

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