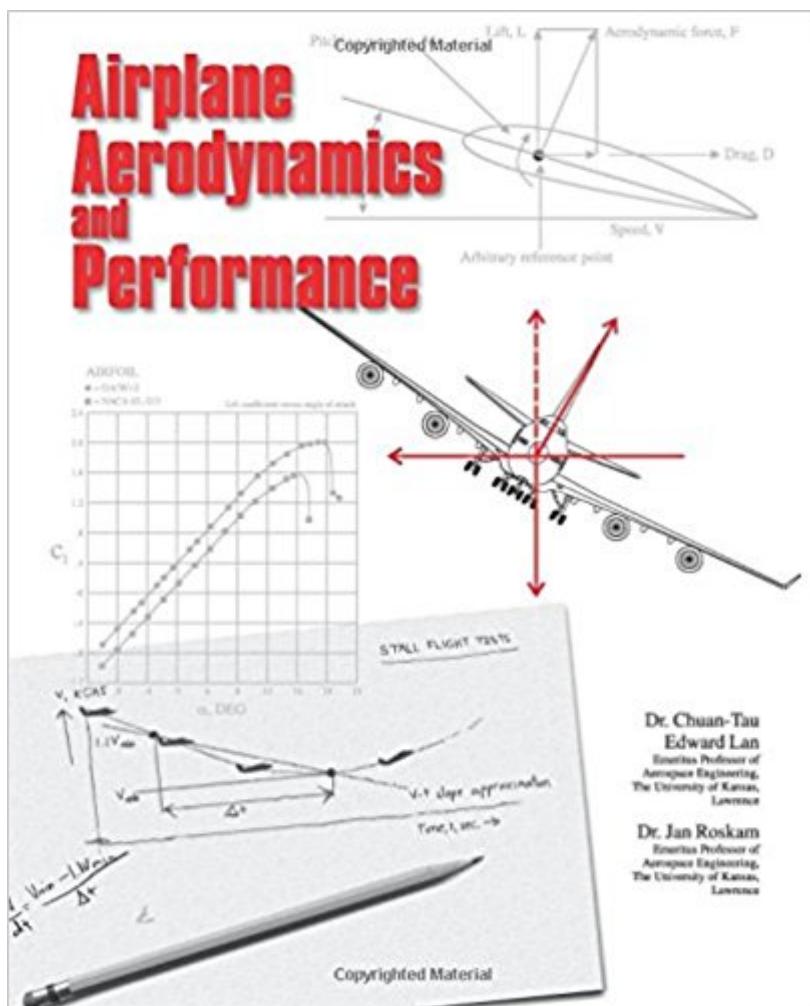


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Airplane Aerodynamics And Performance



Synopsis

Nearly all aerospace engineering curricula include a course on airplane aerodynamics and airplane performance as required material. This textbook delivers a comprehensive account of airplane aerodynamics and performance. In this revised edition of Airplane Aerodynamics and Performance exhaustive coverage is provided for the atmosphere and basic aerodynamic principles and applications. The practical aerodynamics and performance applications are stressed with new examples and illustrations. This widely used book has been updated with modern airplane and aerodynamic data. Airplane Aerodynamics and Performance has been internationally acclaimed as a practical reference that covers the methodology and decision making involved in the process of analyzing airplane performance, and is currently used by educators and industry practitioners across the globe as both a textbook and a key reference. Reader confusion is minimized through a systematic progression of fundamentals: Airfoil Theory Wing Theory Airplane Drag Airplane Propulsion Systems Propeller Theory Climb Performance and Speed Take-Off and Landing Performance Range and Endurance Maneuvers and Flight Envelope

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Customer Reviews

Dr. C. Edward Lan has authored two books on airplane aerodynamics and airplane performance. He is the author of more than 100 papers on these topics and the co-author of Airplane Aerodynamics and Performance. He retired as the Warren S. Bellows Distinguished Professor of Aerospace Engineering at The University of Kansas, where he taught airplane aerodynamics and

performance, computational fluid dynamics, helicopter aerodynamics, aero elasticity and advanced aerodynamics courses. Dr. Jan Roskam has authored ten books on airplane flight dynamics and airplane design. He co-authored Airplane Aerodynamics and Performance with Dr. CT. Lan. He has written more than 160 papers on these topics and authored the popular Roskam's War Stories. He has actively participated in more than 36 major airplane programs. He retired as Ackers Distinguished Professor of Aerospace Engineering at The University of Kansas (KU) in 2003, where he taught airplane design, stability and control. Dr. Roskam retired as President of DARcorporation (Design, Analysis and Research Corporation) in 2004. He currently serves as an active consultant for DARcorporation, which develops and markets airplane design and analysis software, and is a successful private and government consulting firm.

A concise and thorough compendium of a lot of aeronautical information that seems to be hard to find in one place. Definitely old school, with formulae type-set on a typewriter and some hand-drawn graphs, but math is math.

One of the better aero books I've seen.

An encyclopedic book on airplane aerodynamics and performance presenting all aspects of this vast field in a good organized and accessible manner. The diagrams and pictures have a more colloquial quality, but they are in general very instructive and at times lively as they present data, aspects or facts about planes that have made aviation history. It is not a book for everyone, and specially not for the reader expecting to get in short an overview of airplanes design or analysis. It is excellent for the student that higher values a technical than a scientific approach to aerodynamics. The book presents not only equations, it presents a wealth of data on values, parameters, technical solutions, realized on existing airplanes. You end reading each chapter with a good understanding of the concepts AND an overview of the numbers you can expect when realising technical solutions.

Confusing diagrams, odd formula derivations with insufficient explanation as to what's important and what is not. There are many minor typographical errors, though those do little more than annoy. I have struggled for hours trying to glean some meaning from this book and am bewildered at the authors' methods and content organization. This book is almost incomprehensible, and is only useful (sometimes) for its exhaustive breakdowns of concepts. This book throws every bit of everything at you with no regard to helping you understand aircraft performance or design.

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