



# Human Performance & Limitations in Aviation, Third Edition

By R. D. Campbell, M. Bagshaw

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**Human Performance & Limitations in Aviation, Third Edition** By R. D. Campbell, M. Bagshaw

Human error is cited as a major cause in over 70% of accidents, and it is widely agreed that a better understanding of human capabilities and limitations - both physical and psychological - would help reduce human error and improve flight safety.

This book was first published when the UK Civil Aviation Authority introduced an examination in human performance and limitations for all private and professional pilot licences. Now the Joint Aviation Authorities of Europe have published a new syllabus as part of their Joint Aviation Requirements for Flight Crew Licensing.

The book has been completely revised and rewritten to take account of the new syllabus. The coverage of basic aviation psychology has been greatly expanded, and the section on aviation physiology now includes topics on the high altitude environment and on health maintenance. Throughout, the text avoids excessive jargon and technical language.

"There is no doubt that this book provides an excellent basic understanding of the human body, its limitations, the psychological processes and how they interact with the aviation environment. I am currently studying for my ATPL Ground Exams and I found this book to be an invaluable aid. It is equally useful for those studying for the PPL and for all pilots who would like to be reminded of their physiological and psychological limitations."

—*General Aviation*, June 2002

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### Editorial Review

#### Review

"...is not only essential reading for those taking examinations but is an invaluable guide for all of us who fly, instruct in the air, teach on the ground and examine." (*The Aerospace Professional*)

"The writing is concise, easy to follow, and enjoyable to read." (*Aviation, Space and Environmental Medicine*)

"a very useful reference book...worthwhile and recommended" (*Australian Air Pilot*)

#### From the Back Cover

Human factors are cited as a major cause in over 70% of accidents, and it is widely agreed that a better understanding of human capabilities and limitations - both physical and psychological - would help reduce human error and improve flight safety.

Many private and commercial pilot licence examinations worldwide now include the subject of human performance and limitations. This book, written by two pilots, one of whom is also an aviation medical practitioner, provides a readable introduction to the basic concepts of human factors in aviation. It features an important section on basic aviation psychology, as well as topics on physiology and high altitude environment and health maintenance.

The Third Edition has now been expanded to include more detail on the physiology of hypoxia, as well as deeper coverage of principles of aviation psychology.

#### About the Author

The late Ron Campbell, Executive Chairman of AOPA UK, was a member of the ECAC Working Group and JAA Flight Crew Licensing Committee responsible for the harmonization of pilot training and licensing in Europe. Pamela Campbell, who has also contributed to the book, is a former commercial pilot and flying instructor and is currently the International AOPA delegate on the JAA Flight Crew Licensing Committee.

Michael Bagshaw is Head of Medical Services for British Airways. He is a current professional pilot, flying instructor and examiner, and a recognized authority on human factors in aviation. He was formerly Senior Medical Officer Pilot and specialist in aviation medicine at the RAF Institute of Aviation Medicine, Farnborough, UK.

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