



Human Factors in Flight

By Frank H. Hawkins, Harry W. Orlady

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The late Captain Frank H Hawkins FRAes, M Phil, was Human Factors Consultant to KLM, for whom he had flown for over 30 years as line captain and R & D pilot, designing the flight decks for all KLM aircraft from the Viscount to the Boeing 747. In this period he developed and applied his specialization in Human Factors. His perception of lack of knowledge of Human Factors and its disastrous consequences led him to initiate both an annual course on Human Factors in Transport Aircraft Operation at Loughborough and Aston Universities, and the KLM Human Factors Awareness Course (KHUFAC). A consultant member of SAE S-7 committee, he was also a member of the Human Factors Society and a Liveryman of the Guild of Air Pilots. He was keynote speaker at the ICAO Human Factors Seminar held in St Petersburg, Russia in April 1990.

About the Editor The late Captain Harry W Orlady was an Aviation Human Factors Consultant and a former Senior Research Scientist for the Aviation Safety Reporting System (ASRS); he also worked with NASA/Ames, with private research firms and the FAA in its certification of the Boeing 747-400 and the McDonnell-Douglas MK-11. As a pilot with United Airlines he flew 10 types of aircraft ranging from the DC-3 to the Boeing 747. He conducted studies in ground and flight training, Human Factors, aviation safety and aeromedical fields, and received several major awards and presented nearly 100 papers or lectures. He was an elected fellow of the Aerospace Medical Association; a member of the Human Factors Society, of ICE Flight Safety and Human Factors Study Group, and the SAE Human Behavioural Technology and G-10 Committees.

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Editorial Review

Review

'An outstanding job of presenting much needed information in a highly readable style...'

John K. Lauber, National Transportation Safety Board

'Captain Frank Hawkins' book ought to be read by everyone in the airline business.'

Dr Yoshi Funatsu, All Nippon Airways Safety Committee Chairman

'...a very useful book, particularly from the pilot's standpoint.'

Dr Robert L. Arnold, Instructional Systems Manager, United Airlines

'...a simply superb job of bringing the human side of the flight deck crew and their passengers to the attention of the aerospace community.'

Canadian Aeronautics and Space Journal

'...should be part of any serious pilot's library.'

AOPA Pilot Of the second edition:

'...all those concerned with the design and operation of aircraft will find great value in it...Captain Orlady has added to the major contribution to air safety originally made by the late Frank Hawkins.'

Aerospace

'...essential reading for all who are involved in aviation engineering and airline operation - especially pilots...'

Occupational Safety and Health

'...it would be hard to overestimate the importance of this work which is in the forefront of aviation safety knowledge and planning.'

Lloyds List, London

'...this book remains an impressive volume and it is easy to see why the first edition was so successful. Given its scope, it is likely to remain the first 'port of call' for the pilot or undergraduate seeking accessible and practical information on a new aviation human factors topic. Following Hawkins' untimely death in 1990, Ashgate made an excellent choice in selecting Harry Orlady to complete the second edition of this pioneering book. Captain Orlady has done a fine job of updating the text and expanding the appeal of the first edition. This edition of Human Factors in Flight certainly seems set to continue the success achieved by the first edition.'

International Journal of Aviation Psychology

'Captain Hawkins has admirably succeeded in his purpose and this book should be required reading for professional engineers in civil aviation and for all those other professionals concerned with the operation of aircraft...If this book is as widely read as it deserves, it will contribute significantly to accident prevention.'

Dr. G. Bennett, Head of CAA Medical branch in Aerospace

'...a very valuable contribution towards an understanding of why and how flying accidents are caused.'

Flight Safety Bulletin

'...this book deserves to be available on the bookshelf of every lawyer dealing with the frailties of man in aviation...'

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ZLW Zeitschrift für Luft- und Weltraumrecht, Sept 03.

'This book provides the best scientific knowledge for the efficient management of the human component in flight, taking into account the human factor in aviation safety. It provides a comprehensive view of this issue, and is useful for students, trainers and test pilots.' --Aviador No 56, 2010

About the Author

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Users Review

From reader reviews:

Sheila Cyr:

Hey guys, do you desire to find a new book to study? Maybe the book with the name Human Factors in Flight suitable to you? The actual book was written by a famous writer in this era. The actual book titled Human Factors in Flight is the main one of several books that everyone reads now. This specific book was inspired lots of people in the world. When you read this publication you will enter the new way of measuring that you ever know before. The author explained their strategy in the simple way, thus all of people can easily to comprehend the core of this guide. This book will give you a large amount of information about this world now. In order to see the represented of the world with this book.

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