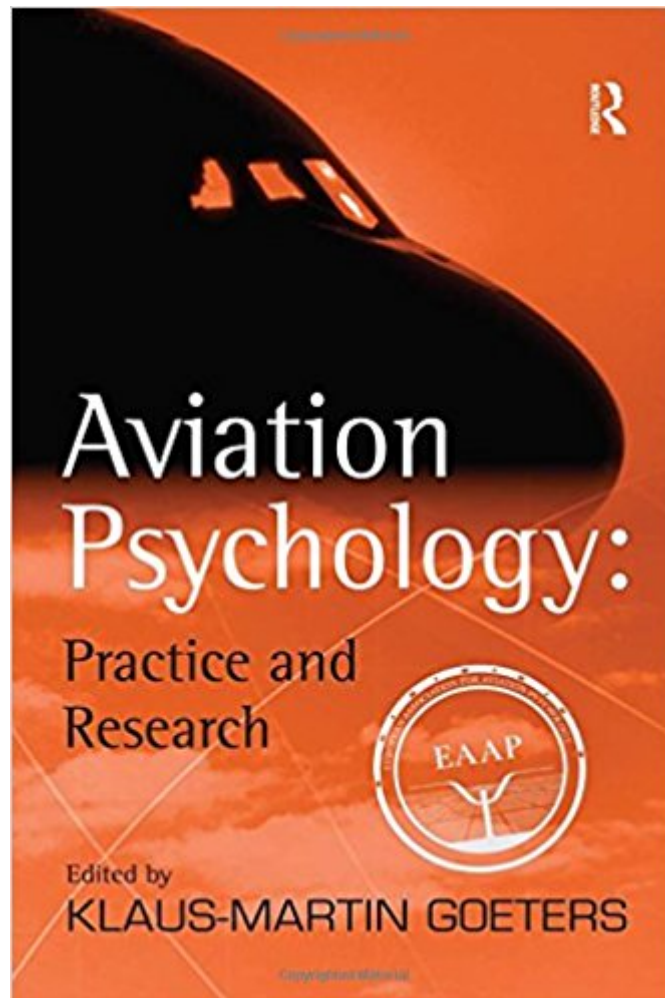




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# Aviation Psychology: Practice And Research



## Synopsis

In the well-established aviation system, the importance of sound human factors practice, based on good aviation psychology research, is obvious from those incidents and accidents resulting from its neglect. This carefully structured book presents an up-to-date review of the main areas in the field of Aviation Psychology. It contains current thinking mainly from Europe, but with input from Australia and North America, from specialists involved in research, training and operational practice.

Spanning six parts, the book covers: Human Engineering, Occupational Demands, Selection of Aviation Personnel, Human Factors Training, Clinical Psychology, Accident Investigation and Prevention. Looking at the six parts - in human engineering, the reader learns about human-centered automation as well as human factors issues in aircraft certification. Results derived by job analysis methods are presented in the next part and serve as basic information in the design of selection and training programs. In selection, computerized testing or behaviour-oriented assessments are challenging approaches for personnel recruitment. Cost-benefit analyses in selection reveal convincing results, enabling organizations to save huge amounts of inappropriate training investment by the application of proper selection tests. The NOTECHS method is described which helps to assess CRM capabilities in training and can also be used to measure training effects in systematic validation studies. Although operational personnel in aviation are usually able to cope with stress more efficiently than other occupational groups, individual problems might develop as reactions to traumatic influences. Either a psychological evaluation or a proper treatment or both is then required as described in the 'Clinical Psychology' part of the book. The readership includes: aviation psychologists and flight surgeons, training, selection and recruitment specialists, instructor pilots, CRM facilitators, personnel managers, accident investigators, safety pilots, air traffic controllers, aircraft engineers and those dealing with human-machine interfaces.

## Book Information

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## Customer Reviews

'...an interesting and well written book, providing the essential issues and the main areas in the field of aviation psychology of today.' Airlines Magazine

Klaus-Martin Goeters (M.Sc. and Ph.D. in Psychology) has been Head of Department of Aviation and Space Psychology at German Aerospace Center (DLR) in Hamburg, Germany since 1986. His professional activities include research on living and working under confinement (underwater habitats, spaceflights), psychological selection of operational personnel (pilots, air traffic controllers, astronauts), transfer of psychological tests to different cultures and the design and evaluation of non-technical skills training. He teaches at the University of Hamburg. He is Board Member of the European Association for Aviation Psychology. Besides numerous articles and technical reports he is the editor of *Aviation Psychology: A Science and a Profession* (Ashgate, 1998).

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