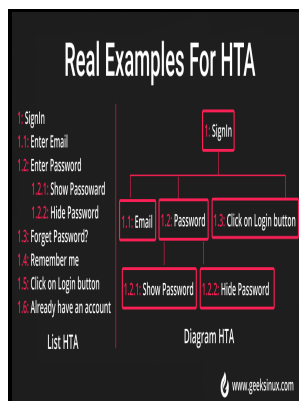


Applied cognitive task analysis in aviation

Avebury Aviation - [PDF] Applied cognitive task analysis (ACTA): a practitioner's toolkit for understanding cognitive task demands.



Description: -

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Employees -- Training of
Cognition.

Task analysis.

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aviation

-Applied cognitive task analysis in aviation

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Applied Cognitive Task Analysis in Aviation

The authors also describe when to use and how to design and conduct a cognitive task analysis; how to use CTA along with traditional task analysis and ISD; and how to use CTA in training program development and systems design, as well as in personnel selection and evaluation. Due to the requirements of automatic system design, and new needs for the training of complex tasks, Cognitive Task Analysis CTA has been used with increasing frequency in recent years by the airline industry and air traffic control community. He also is a consulting editor for the International Journal of Aviation Psychology.

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The first part of the book provides the principles and foundations of CTA, describing traditional approaches to task analysis and ways that cognitive analyses can be integrated with the analysis and development processes. Kaempf has over 10 years experience as a senior scientist or principle investigator on major US government research and development projects in flight simulator training, aircrew training, crew resource management, and decision support systems. A streamlined method of CTA, Applied Cognitive Task Analysis ACTA , is presented in this paper.

Applied Cognitive Task Analysis in Aviation

He holds a Juris Doctor degree from Washington and Lee University, USA, a M. ACTA consists of three interview methods that help the...

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The current demand for cognitive analyses makes this a timely volume for those in aviation and, more generally, the industrial development and training communities. Readers will find this a thorough presentation of cognitive analyses in aviation and a highly usable guide in the design, implementation and interpretation of CTA. The book will be useful to instructional developers, aviation equipment and systems designers, researchers, government regulatory personnel, human resource managers, instructors, pilots, air traffic controllers, and operations staff.

[PDF] Applied cognitive task analysis (ACTA): a practitioner's toolkit for understanding cognitive task demands.

Previous to this, he was a senior research associate at Klein Association Inc. It is designed to help readers identify and solve specific design and training problems, in the flight deck, air traffic control and operations contexts.

Applied Cognitive Task Analysis in Aviation

He currently is the senior research scientist at Cognitive and Human Factors Santa Fe, USA directing the cognitive modelling of air traffic controller and aircrew performance. He holds MS and PhD degrees in experimental psychology from Virginia Commonwealth University, USA. As the most published author in the world on using cognitive task analysis for training design, his work is widely cited.

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