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Accessing Fms Functionality: The Impact of Design on Learning

By Karl Fennell

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. In modern commercial and military aircraft, the Flight Management System (FMS) lies at the heart of the functionality of the airplane. The nature of the FMS has also caused great difficulties learning and accessing this functionality. This study examines actual Air Force pilots who were qualified on the newly introduced advanced FMS and shows that the design of the system itself is a primary source of difficulty learning the system. Twenty representative tasks were selected which the pilots could be expected to accomplish on an actual flight. These tasks were analyzed using the RAFIV stage model (Sherry, Polson, et al. 2002). This analysis demonstrates that a great burden is placed on remembering complex reformulation of the task to function mapping. 65 of the tasks required retaining one access steps in memory to accomplish the task, 20 required two memorized access steps, and 15 required zero memorized access steps. The probability that a participant would make an access error on the tasks was: two memorized access steps - 74, one memorized access step - 13, and zero memorized access steps - 6....



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