

Motion cues in flight simulation and simulator induced sickness

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Résumé ou extrait : These proceedings include seventeen papers, ensuing discussions of the papers, and a Round Table Discussion from the Symposium sponsored by the AGARD Aerospace Medical Panel held in Brussels, Belgium, on September 28 to October 2, 1987 The frequency of reports of undesirable effects associated with simulator training has increased as simulator usage has increased to offset the higher cost and risk of conducting training in the complex modern aircraft. Review of current and anticipated future trends in simulator design features suggests that additional problems will arise if research on the etiology of simulator-induced motion sickness and on the unwanted simulator effects is insufficient to counteract problems before they arise. The objective of this symposium was to examine simulator-induced effects, their operational implications, and their etiology in order to develop ideas for reducing undesired effects. The papers in this symposium address present and anticipated trends in simulator design, a theoretical viewpoint underlying many of the studies of simulator effects, characteristics of simulators associated with undesired effects, surveys of simulator-induced effects, models for the design and evaluation of

simulators, and perceptual and neurophysiological functions fundamental to the understanding of simulation. These papers and the accompanying discussion provide a summary of information obtained in recent years on simulation, and guidelines for direction of future research

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