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Chapter 6. The Human in Flight: From Kinesthetic Sense to Cognitive SensibilityIntroduction; The Evolution of The Aircraft Cockpit and of the Pilot's Task; Correspondence and the Naturalistic World; Coherence and the Electronic World; Managing the Hybrid Ecology; Challenges for NextGen Aircraft; Summary and Implications for Design; Conclusions;
Chapter 7. Information Processing in Aviation; Introduction; Information Processing in Early Aviation; Higher-Level Processing in Aviation Systems; Resources for Meeting the Information Processing Challenges in Aviation
Emergent Processes-Mental Workload and Situation AwarenessFuture Directions; Chapter 8. Managing Workload, Performance, and Situation Awareness in Aviation Systems; A Management Framework; Practical Issues: Combining WL, SA, and Performance; Chapter 9. Team Dynamics at 35,000 Feet; Introduction; Why does Aviation Crew Performance Matter?; Advances in Team Performance Research; Advances in Aviation Crew Performance; What Factors Impact Crew Performance?; How can Aviation Crew Performance be Improved?; Where do we go from here?; Concluding Remarks; Acknowledgment
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Improving Human Performance and Learning Models for Warfighter Readiness

Sommario/riassunto

This edited textbook will be a fully updated and expanded version of the highly successful first edition of Human Factors in Aviation. Written for the widespread aviation community - students, engineers, scientists, pilots, managers, government personnel, etc. ? HFA offers a comprehensive overview of the topic, taking readers from the general to the specific, first covering broad issues, then the more specific topics of pilot performance, human factors in aircraft design, and vehicles and systems.The new editors offer essential breath of experience on aviation human factors from multi
