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Autore	Campbell R. D
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related hazards to hearing; Effects of altitude change; 3.4 Equilibrium; Functional anatomy of the vestibular system
Motion sickness3.5 Integration of sensory inputs; Orientation; Sensory illusions and spatial disorientation; Vestibular illusions; Visual illusions; Approach and landing errors; Prevention of disorientation; 4 Health and Hygiene; 4.1 Personal hygiene; 4.2 Common minor ailments; Colds; Influenza; Gastro-intestinal upset; 4.3 Problem areas for pilot health; Hearing loss; Defective vision; Hypotension; Hypertension; Coronary artery disease; Obesity; Nutrition; Tropical climates and epidemic disease; 4.4 Intoxication; Tobacco; Alcohol; Drugs and self-medication; Toxic hazards; Carbon monoxide
4.5 Incapacitation during flightSymptoms and causes; Operational coping procedures; Flying after SCUBA diving; Part 3 Basic Aviation Psychology; 5 Human Information Processing; 5.1 Attention and vigilance; 5.2 Perception; Perception illusions; Perceptual subjectivity; 5.3 Memory; Short-term memory (sensory); Long-term memory; Working memory; Motor memory (skills); 5.4 Response selection; Learning principles and techniques; Motivation; 6 Human Error and Reliability; 6.1 Reliability of human behaviour; 6.2 Hypotheses of reality; 6.3 Theory and model of human error; 6.4 Error generation ErgonomicsEconomics; Social environment; 7 Decision Making; 7.1 Decision-making concepts; Structure phases; Limits; Risk assessment; Practical application of risk management; 8 Avoiding and Managing Errors: Cockpit Management; 8.1 Error management; 8.2 Safety awareness; Risk area awareness; Error proneness; Error sources; Situational awareness; 8.3 Multi-crew co-ordination; 8.4 Co-operation; Group dynamics; Leadership and management styles; Individual duty and role; Advantages and disadvantages of team work; 8.5 Communication; Communication models; Verbal and non-verbal communication
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Sommario/riassunto

Human error is cited as a major cause in over 70% of accidents, and it is widely agreed that a better understanding of human capabilities and limitations - both physical and psychological - would help reduce human error and improve flight safety. This book was first published when the UK Civil Aviation Authority introduced an examination in human performance and limitations for all private and professional pilot licences. Now the Joint Aviation Authorities of Europe have published a new syllabus as part of their Joint Aviation Requirements for Flight Crew Licensing. The book has been compl