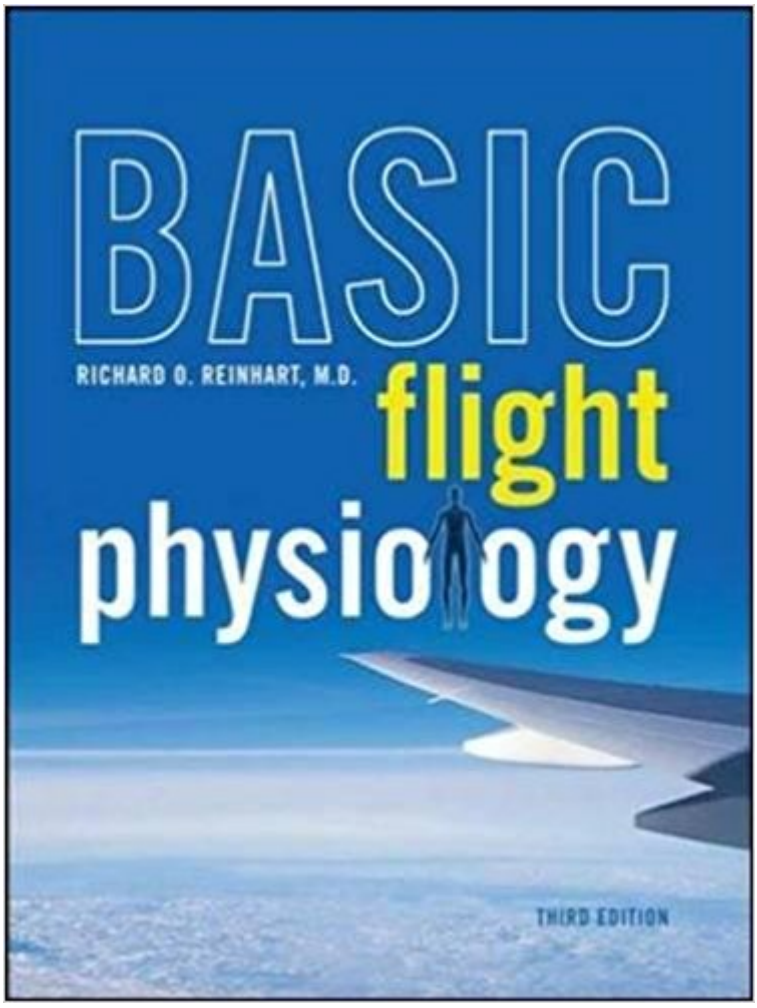
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Basic Flight Physiology (Aviation)



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Synopsis

The #1 Guide to Flight Physiology_Now Updated and Expanded with the Latest INSIGHTS for ENHANCING AIRCREW SAFE PERFORMANCE! The Third Edition of Basic Flight Physiology has been completely updated and expanded with information on THAT WILL REDUCE PILOT IMPAIRMENT IN FLIGHT. This definitive guide to PHYSIOLOGICAL human factors in the flying environment provides a wealth of preventive measures pilots can take to anticipate and compensate for HUMAN FACTORS that cause 70% of all aviation accidents. Packed with over 100 INFORMATIVE illustrations, this resource contains UNDERSTANDABLE coverage of THE MANY PHYSIOLOGICAL FACTORS THAT AFFECT PILOT PERFORMANCE PLUS crew resource management, in-flight medical emergencies, health maintenance programs, and more. The Third Edition of Basic Flight Physiology features: Methods for dealing with vertigo and DISORIENTATION Critical information on tolerance to FATIGUE Techniques for handling self-imposed and environmental stresses Guidance on the effects of caffeine, alcohol, and OVER-THE-COUNTER DRUGS Explore Every Aspect of Ã¢â ¬Å“Medical AirworthinessÃ¢â ¬Â•: Ã¢â ¬Â¢ Human Factors Defined Ã¢â ¬Â¢ Basic Human Anatomy Ã¢â ¬Â¢ The Atmosphere Ã¢â ¬Â¢ Situation Awareness Ã¢â ¬Â¢ Altitude Physiology Ã¢â ¬Â¢ Hearing and Vibration Ã¢â ¬Â¢ Vision Ã¢â ¬Â¢ Orientation Ã¢â ¬Â¢ Self-Imposed Medical Stress Ã¢â ¬Â¢ Environmental Stresses Ã¢â ¬Â¢ Sleep, Jet Lag, and Fatigue Ã¢â ¬Â¢ Acceleration Ã¢â ¬Â¢ Crew Resource Management Ã¢â ¬Â¢ Human Factors of Automation Ã¢â ¬Â¢ In-Flight Medical Emergencies Ã¢â ¬Â¢ Health Maintenance Program Ã¢â ¬Â¢ Medical Standards, Regulation, and Certification

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Customer Reviews

How your mind and body can be impaired in flight to undermine safety--now updated with the latest research and case studies An understanding of flight physiology is crucial to aviation safety. Although strides have been made in understanding the human factor, 70% of flight accidents remain linked to pilot error. Now updated and expanded, this definitive text on the mind and body in the flying environment will benefit everyone who flies, particulary civilian pilots. You'll get eye-opening, potentially accident-preventing information on how to anticipate and compensate for the physiological effects unique to flying that can erode performance. Thoroughly revised to reflect the latest research and data, this essential text includes new chapters on the effects of automation on crew resource management (CRM), emphasizing the crucial importance of situational awareness. Other topics include: Fatigue; Dehydration; Extreme temperatures; Vibration and hearing; Spatial disorientation; Hypoxia; Stress; Vertigo and motion sickness; Visual illusions and misperceptions; Tolerance to G forces; Jet lag; Health maintenance. . .the effects of over-the-counter medications, caffeine, alcohol and drugs, and more. --This text refers to an out of print or unavailable edition of this title.

Richard Reinhart, M.D. is the president of Human Factors Resources, a company that provides educational resources and training for FAA medical certification and medical management in the aviation community.

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Great book!

A perfect book for the aviator or medical professional interested in knowing more about the

physiology of flight and the interaction between humans and the atmosphere. The author makes gas laws easy to remember and differentiate.The only drawback is that the author seems to get easily drawn into tangents and metaphor. Otherwise, a solid read.

Facts on alcohol, the brain, the heart, and many other systems and how they are affected by altitude. A very good textbook for the money (for a change). I bought a used one, of course, but it was like brand new. It was easy to read.

Very useful. However some info are hard to find

It’s a bit of a contradictory book. I needed it for a class at ASU (AMT 410) and it did the trick. Good conditions and no issues with pages or the product as a whole

Lots of information you will not regret knowing, specially if you want to become a pilot, you will be ahead of the game, you will understand how much physiology affect your flight...Great reading ..

A very informative and technical textbook. Had to use it for college, but as a CFI applicant - found a better use for it.

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