



Flying Fast Jets: Human Factors and Performance Limitations (Human Factors in Defence)

David G., Ph.D. Newman

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This book provides a detailed general overview of the human factors and performance limitations associated with flying fast jets, integrating all the latest available research literature on the demanding operational tasks faced by such pilots and aircrews. As such, it has a strong military focus, dealing with pilots of fighter aircraft, attack aircraft and lead-in fighter trainer aircraft that are traditionally only single or dual pilot operations. The book deals not only with the issue of G force, but discusses ejection and escape/survival, disorientation, high altitude physiology, pilot training and selection, helmet-mounted equipment, situational awareness, data fusion and multi-sensor integration, human machine interface issues and advanced cockpit design. It examines the human performance issues associated with the technological advances made in fast jets, such as increased manoeuvrability, increased use of the pilot's head as a mounting platform for sensor and weapons systems, and the complexities involved in the human-machine interface within these aircraft.

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