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Guide

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**Adverse aircraft-pilot coupling (APC) events include a broad set of undesirable and sometimes hazardous phenomena that originate in anomalous interactions between**

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**pilots and aircraft. As civil and military aircraft technologies advance, interactions between pilots and aircraft are becoming more complex. Recent accidents and other incidents have been attributed to adverse APC in military aircraft. In**

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**addition, APC has been implicated in some civilian incidents. This book evaluates the current state of knowledge about adverse APC and processes that may be used to eliminate it from military and commercial aircraft. It was written**

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**for technical, government, and administrative decisionmakers and their technical and administrative support staffs; key technical managers in the aircraft manufacturing and operational industries; stability and control**

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**engineers; aircraft flight control system designers; research specialists in flight control, flying qualities, human factors; and technically knowledgeable lay readers.**

**Asserts that the story of the 9/11 disaster is a monumental lie.**

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**Original.**

**From the author of Fly!: Life Lessons from the Cockpit of QF32  
Aviation Safety and Pilot Control  
The Aeronautical Journal  
Automation and Human Performance**

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## **World Review of Aviation, Astronautics, Avionics 737NG Training Syllabus**

Human error is implicated in nearly all aviation accidents, yet most investigation and prevention programs are not designed around any

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theoretical framework of human error. Appropriate for all levels of expertise, the book provides the knowledge and tools required to conduct a human error analysis of accidents, regardless of operational setting (i.e. military, commercial, or general aviation). The

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book contains a complete description of the Human Factors Analysis and Classification System (HFACS), which incorporates James Reason's model of latent and active failures as a foundation. Widely disseminated among military and civilian

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organizations, HFACS encompasses all aspects of human error, including the conditions of operators and elements of supervisory and organizational failure. It attracts a very broad readership. Specifically, the book serves as the main textbook for a course in aviation

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accident investigation taught by one of the authors at the University of Illinois. This book will also be used in courses designed for military safety officers and flight surgeons in the U.S. Navy, Army and the Canadian Defense Force, who currently utilize the

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HFACS system during aviation accident investigations. Additionally, the book has been incorporated into the popular workshop on accident analysis and prevention provided by the authors at several professional conferences world-wide. The book is

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also targeted for students attending Embry-Riddle Aeronautical University which has satellite campuses throughout the world and offers a course in human factors accident investigation for many of its majors. In addition, the book will be incorporated

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into courses offered by Transportation Safety International and the Southern California Safety Institute. Finally, this book serves as an excellent reference guide for many safety professionals and investigators already in the field. Every day in the United States, over

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two million men, women, and children step onto an aircraft and place their lives in the hands of strangers. As anyone who has ever flown knows, modern flight offers unparalleled advantages in travel and freedom, but it also comes with grave responsibility

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and risk. For the first time in its history, the Federal Aviation Administration has put together a set of easy-to-understand guidelines and principles that will help pilots of any skill level minimize risk and maximize safety while in the air. The Risk

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Management Handbook offers full-color diagrams and illustrations to help students and pilots visualize the science of flight, while providing straightforward information on decision-making and the risk-management process.

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The AOPA Pilot  
Boeing 747-400  
Federal Register  
A Concept and Guidelines  
Instrument Flying Handbook  
Journal of Guidance, Control, and  
Dynamics

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*With up to 80% of accidents attributed to pilot error, this new series is critically important. It identifies and examines the ten top areas of concern to*

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*pilot safety. Each book contains real-life pilot stories drawn from FAA/NASA databases, valuable "save-yourself" techniques and an action agenda of preventive*

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*techniques pilots can implement to avoid risks.*

*This handbook supersedes FAA-H-8261 -16, Instrument Procedures Handbook, dated 2014. It*

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*is designed as a technical reference for all pilots who operate under instrument flight rules (IFR) in the National Airspace System (NAS). It expands and*

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*updates information contained in the FAA-H-8083-15B, Instrument Flying Handbook, and introduces advanced information for IFR operations. Instrument*

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*flight instructors, instrument pilots, and instrument students will also find this handbook a valuable resource since it is used as a reference for the*

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*charts and procedures including IFR takeoff, departure, en route, arrival, approach, and landing. Safety information covering relevant subjects such*

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*as runway incursion, land and hold short operations, controlled flight into terrain, and human factors issues also are included.*

*Controlling Pilot Error:*

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*Automation  
Air Line Pilot  
FAA-H-8083-2  
Proceedings,  
IEEE/AIAA/NASA 9th  
Digital Avionics Systems  
Conference, October  
Page 28/76*

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**QF32**

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*Interavia*

*Theory and Applications*

*Aircraft Engineering and Aerospace  
Technology*

*AIAA Flight Simulation Technologies  
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QF32 is the award winning bestseller from Richard de Crespigny, author of the forthcoming Fly!: Life Lessons from the Cockpit of QF32 On 4 November 2010, a flight from Singapore to Sydney came

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within a knife edge of being one of the world's worst air disasters. Shortly after leaving Changi Airport, an explosion shattered Engine 2 of Qantas flight QF32 - an Airbus A380, the largest and most advanced

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passenger plane ever built. Hundreds of pieces of shrapnel ripped through the wing and fuselage, creating chaos as vital flight systems and back-ups were destroyed or degraded. In other hands, the

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plane might have been lost with all 469 people on board, but a supremely experienced flight crew, led by Captain Richard de Crespigny, managed to land the crippled aircraft and safely disembark

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extraordinary skills and training needed to keep us safe in the air. Fascinating in its detail and vividly compelling in its narrative, QF32 is the riveting, blow-by-blow story of just what

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The Federal Aviation  
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with the knowledge and skills required to operate in instrument meteorological conditions. Illustrated with full-color graphics and photographs, topics covered include basic atmospheric

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text, the Instrument Flying Handbook is a great study guide for potential pilots looking for certification, and a perfect gift for any aircraft or aeronautical buff.

### Human-centered Aircraft

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***There is perhaps no facet of modern society where the influence of computer automation has not been felt. Flight management systems***

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***for pilots, diagnostic and surgical aids for physicians, navigational displays for drivers, and decision-aiding systems for air-traffic controllers, represent only a few of the numerous domains in which powerful new***

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***automation technologies have been introduced. The benefits that have been reaped from this technological revolution have been many. At the same time, automation has not always worked as planned by designers, and many problems***

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***have arisen--from minor inefficiencies of operation to large-scale, catastrophic accidents. Understanding how humans interact with automation is vital for the successful design of new automated systems that are***

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***both safe and efficient. The influence of automation technology on human performance has often been investigated in a fragmentary, isolated manner, with investigators conducting disconnected studies in***

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***different domains. There has been little contact between these endeavors, although principles gleaned from one domain may have implications for another. Also, with a few exceptions, the research has tended to be empirical and***

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***only theory-driven. In recent years, however, various groups of investigators have begun to examine human performance in automated systems in general and to develop theories of human interaction with automation***

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***technology. This book presents the current theories and assesses the impact of automation on different aspects of human performance. Both basic and applied research is presented to highlight the general***

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***principles of human-computer interaction in several domains where automation technologies are widely implemented. The major premise is that a broad-based, theory-driven approach will have significant implications***

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***for the effective design of both current and future automation technologies. This volume will be of considerable value to researchers in human  
Designed as a technical reference for instrument-rated pilots who want to***

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***improvement plans, and helicopter instrument procedures. Thorough safety information covers relevant subjects such as runway incursion, land and hold short operations, controlled flight into terrain, and human***

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***factors. Featuring an index, an appendix, a glossary, full-color photos, and illustrations, the Instrument Procedures Handbook is a valuable training aid and reference for pilots, instructors, and flight***

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***capacity, new-generation technology and cost savings, have all improved the original Jumbo Jet. This volume covers the design, technical specifications, engine choice and***

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***production of this aircraft.***

***The Turbine Pilot's Flight  
Manual***

***FAA-H-8083-16A***

***Flight crew factors for CTAS  
FMS integration in the  
terminal area***

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***Research and Technology  
1998***

***Commercial Aviation Safety,  
Sixth Edition***

***April 24-27, 1995***

***First published in 1999, this volume  
examined how increasing cockpit***

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***automation in commercial fleets across the world has had a profound impact on the cognitive work that is carried out on the flight deck. Pilots have largely been transformed into supervisory controllers, managing a suite of human and automated resources.***

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***Operational and training requirements have changed, and the potential for human error and system breakdown has shifted. This compelling book critically examines how airlines, regulators, educators and manufacturers cope with these and other consequences of***

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