

A330 & A340

Flight Crew Training Manual



Airbus 330 Flight Crew Training Manual

**Piet Christof Wölcken, Michael
Papadopoulos**



Airbus 330 Flight Crew Training Manual:

Smart Intelligent Aircraft Structures (SARISTU) Piet Christof Wölcken, Michael Papadopoulos, 2015-09-04 The book includes the research papers presented in the final conference of the EU funded SARISTU Smart Intelligent Aircraft Structures project held at Moscow Russia between 19-21 of May 2015. The SARISTU project which was launched in September 2011 developed and tested a variety of individual applications as well as their combinations. With a strong focus on actual physical integration and subsequent material and structural testing, SARISTU has been responsible for important progress on the route to industrialization of structure integrated functionalities such as Conformal Morphing, Structural Health Monitoring and Nanocomposites. The gap and edge free deformation of aerodynamic surfaces known as conformal morphing has gained previously unrealized capabilities such as inherent de-icing, erosion protection and lightning strike protection while at the same time the technological risk has been greatly reduced. Individual structural health monitoring techniques can now be applied at the part manufacturing level rather than via extending an aircraft's time in the final assembly line. And nanocomposites no longer lose their improved properties when trying to upscale from neat resin testing to full laminate testing at element level. As such, this book familiarizes the reader with the most significant developments, achievements and key technological steps which have been made possible through the four year long cooperation of 64 leading entities from 16 different countries with the financial support of the European Commission. Advanced Approach Light System Behrend, Ferdinand, 2017-08-25 The constant growth in aviation requires the introduction of new technologies in order to meet the demand for increasing capacity. Especially the airport often represents the limiting factor. Poor visibility conditions and an insufficiently equipped ground infrastructure regarding navigation facilities can lead to restrictions in maintaining the prevailing traffic flow, especially during the approaches. The conventional instrument landing system consists of numerous technical components which are causing expenses regarding maintenance and operation. Smaller airports are often only partially or not at all equipped with the appropriate ground facilities. This can bring air traffic to a total halt during certain visibility conditions. New satellite based approach procedures offer the possibility to keep up air traffic even during poor visibility conditions regardless of the ground infrastructure required in the past. These also offer now a barometric guidance or an augmented satellite signal for the vertical flight guidance component. With the use of these approach procedures there is however the possibility of new faults and errors of the vertical flight guidance signal. In a system based on electromagnetic radio waves a fault is angular meaning if the airplane gets nearer to the transmitter on ground the absolute possible failure of the target approach path gets smaller. In a satellite based approach on the other hand it is constant during the whole approach. The result can be a great deviation from the target approach path even just before reaching the runway threshold. Often only after reaching the decision height and the herewith connected visual contact to corresponding ground features these faults can be recognized during poor visibility conditions close to the minima of a

precision approach flight The larger the absolute error to the target approach path the more crucial it gets to initiate a missed approach procedure and therefore preventing a drop out of the relevant obstacle clearance limit Research has shown that through the currently present visual characteristics of the approach lighting system the actual position cannot be determined sufficiently regarding the runway threshold and the target approach path in order to estimate the decision height correctly The here presented Advanced Approach Light System is supposed to be an additional visual aid in order to support the cockpit crew in its decisions Therefore it should amount to improve the awareness of the situation regarding constant vertical faults The new navigation lighting system has been integrated into a flight simulator and was tested by licensed airline pilots within two test series with varying visibility conditions and decision heights Next to basic functionality operational usability in existing procedures of practical routines in the cockpit has been evaluated The results of the test series have demonstrated a significant improvement in identifying vertical faults with the support of the Advanced Approach Light System The decision to initiate a missed approach was made immediate and prompt and therefore the airplane stayed within the obstacle clearance limit even in a low decision height In contrast the trial participants without the new system took reluctant and often far too late decisions which lead to a drop out of the obstacle clearance limit The Advanced Approach Lighting System has significantly improved the situation awareness for pilots in command in recognizing vertical faults when reaching the decision height The integration in existing work routines and its operative use happened flawlessly and was highly accepted by the trial participants Das stetige Wachstum in der Luftfahrt erfordert die Einf hrung neuer Technologien um der Nachfrage nach steigender Kapazit t gerecht zu werden Insbesondere das System Flughafen stellt hierbei oftmals den limitierenden Faktor dar Schlechte Sichtbedingungen und die unzureichende bodenseitige Ausr stung mit Navigationseinrichtungen k nnen f r Einschr nkungen in der Aufrechterhaltung des bestehenden Verkehrsflusses sorgen insbesondere bei Landeanfl gen Das konventionelle Instrumentenlandesystem besteht aus einer Vielzahl an technischer Komponenten die hohen Aufwand hinsichtlich Wartung und Betrieb verursachen Kleine Flugh fen sind oft nur teilweise oder gar nicht mit den entsprechenden Bodenkomponenten ausger stet so dass der Flugbetrieb bei bestimmten Sichtbedingungen vollst ndig eingestellt werden muss Neue satellitengest tzte Anflugverfahren bieten die M glichkeit den Flugbetrieb auch bei schlechten Sichtbedingungen aufrechtzuerhalten unabh ngig von der bisher notwendigen Bodeninfrastruktur Diese bieten mittlerweile ebenso eine auf der barometrischen H henmessung oder einem aufgewerteten Satellitensignal basierende vertikale Flugf hrungskomponente Allerdings besteht mit der Verwendung entsprechender Anflugverfahren auch eine neue m gliche Fehlercharakteristik des vertikalen Flugf hrungssignals Ist ein Fehler beim auf elektromagnetischen Funkwellen basierenden Instrumentenlandesystem winkelf rmig d h je n her sich das Luftfahrzeug dem Sender am Boden n hert umso kleiner wird die absolute Ablage zum Sollanflugweg ist dieser bei satellitengest tzten Anfl gen konstant ber den gesamten Endanflug Eine gro e Abweichung vom Sollanflugweg auch kurz vor Erreichen der Landebahnschwelle kann die Folge sein

Bei schlechten Sichtbedingungen nahe den Minima eines Präzisionsanfluges kann der Fehler oft erst bei Erreichen der Entscheidungshöhe und dem damit verbundenen visuellen Kontakt zu entsprechenden Bodenmerkmalen erkannt werden. Je größer die Abweichung vom Sollanflugweg umso entscheidender ist das unverzügliche Einleiten des Fehlanfluges um ein Verlassen der entsprechenden Hindernisfreibereiche zu verhindern. Untersuchungen haben gezeigt, dass die aktuell vorhandenen visuellen Merkmale der Anflugbefeuerung nicht ausreichend sein können, die tatsächliche Position bezüglich der Landebahnschwelle und des Sollanflugweges bei Erreichen der Entscheidungshöhe einzuschätzen. Das hier vorgestellte Advanced Approach Light System soll die Cockpitbesatzung als zusätzliches visuelles Merkmal bei der Entscheidung unterstützen und so zur Verbesserung des Situationsbewusstseins hinsichtlich konstanter vertikaler Fehler beitragen. Das neue Befeuerungssystem wurde in einen Flugsimulator integriert und innerhalb zweier Versuchsreihen mit unterschiedlichen Sichtbedingungen und Entscheidungshöhen von lizenzierten Verkehrspiloten getestet. Dabei sollte neben der grundsätzlichen Funktionalität auch die operative Einsetzbarkeit in den bestehenden Ablauf der Handlungsabläufe im Cockpit untersucht werden. Die Ergebnisse der Versuchsreihen haben eine erhebliche Verbesserung im Erkennen vertikaler Fehler mit Hilfe des Advanced Approach Light System aufgezeigt. Die Entscheidung zum Einleiten des Fehlanfluges erfolgte direkt und unverzüglich, wodurch das Luftfahrzeug auch bei sehr niedriger Entscheidungshöhe noch innerhalb des Hindernisfreibereiches blieb. Im Gegensatz dazu wurde bei den Versuchsteilnehmern, denen nicht das neue System zur Verfügung stand, die Entscheidung eher zögerlich und oftmals viel später getroffen, was zu einem Verlassen des Hindernisfreibereiches führte. Das Situationsbewusstsein der Luftfahrzeugführer zum Erkennen vertikaler Fehler beim Erreichen der Entscheidungshöhe wurde durch das Advanced Approach Light System wesentlich erhöht. Die Integration in bestehende Arbeitsabläufe und der operative Einsatz erfolgten bei hoher Akzeptanz problemlos durch die Versuchsteilnehmer.

Understanding Air France

447 Bill Palmer, 2013-07-25 The most comprehensive coverage to date of Air France 447, an Airbus A330 that crashed in the ocean north of Brazil on June 1, 2009, killing all 228 persons on board. Written by A330 Captain Bill Palmer, this book opens to understanding the actions of the crew, how they failed to understand and control the problem, and how the airplane works and the part it played. All in easy-to-understand terms. Addressed are the many contributing aspects of weather, human factors, and airplane system operation and design that the crew could not recover from. How each contributed is covered in detail, along with what has been done and needs to be done in the future to prevent this from happening again. Also see the book's companion website: UnderstandingAF447.com

AIR CRASH INVESTIGATIONS, LOST OVER THE ATLANTIC: The Crash of Air France Flight 447 THE FINAL REPORT George Cramoisi, editor, 2012-09-01 On 31 May 2009, the Airbus A330 flight AF 447 took off from Rio de Janeiro Galeão airport bound for Paris Charles de Gaulle. At around 2 h 02, the Captain left the cockpit for a short nap. At around 2 h 08, at flight level 350, the crew made a course change of 12 degrees to the left to avoid bad weather. At 2 h 10 min 05, likely following the obstruction of the Pitot probes by ice crystals, the speed indications were

incorrect and some automatic systems disconnected The aeroplane's flight path was not controlled by the two copilots They were rejoined 1 minute 30 later by the Captain while the aeroplane was in a stall situation that lasted until the impact with the sea at 2 h 14 min 28 s killing all 228 persons on board It took almost two years to recover the wreck of the aircraft from a depth of 4 000 metres The accident resulted from a succession of events such as inconsistency between the measured airspeeds inappropriate control inputs and the crew's failure to diagnose the stall situation

Performance of the Jet Transport Airplane Trevor M. Young, 2019-10-24 Performance of the Jet Transport Airplane Analysis Methods Flight Operations and Regulations presents a detailed and comprehensive treatment of performance analysis techniques for jet transport airplanes Uniquely the book describes key operational and regulatory procedures and constraints that directly impact the performance of commercial airliners Topics include rigid body dynamics aerodynamic fundamentals atmospheric models including standard and non standard atmospheres height scales and altimetry distance and speed measurement lift and drag and associated mathematical models jet engine performance including thrust and specific fuel consumption models takeoff and landing performance with airfield and operational constraints takeoff climb and obstacle clearance level climbing and descending flight including accelerated climb descent cruise and range including solutions by numerical integration payload range endurance and holding maneuvering flight including turning and pitching maneuvers total energy concepts trip fuel planning and estimation including regulatory fuel reserves en route operations and limitations e.g. climb speed schedules cruise ceiling ETOPS cost considerations e.g. cost index energy cost fuel tankering weight balance and trim flight envelopes and limitations including stall and buffet onset speeds V_n diagrams environmental considerations viz noise and emissions aircraft systems and airplane performance e.g. cabin pressurization de-icing and fuel and performance related regulatory requirements of the FAA Federal Aviation Administration and EASA European Aviation Safety Agency Key features Describes methods for the analysis of the performance of jet transport airplanes during all phases of flight Presents both analytical closed form methods and numerical approaches Describes key FAA and EASA regulations that impact airplane performance Presents equations and examples in both SI System International and USC United States Customary units Considers the influence of operational procedures and their impact on airplane performance Performance of the Jet Transport Airplane Analysis Methods Flight Operations and Regulations provides a comprehensive treatment of the performance of modern jet transport airplanes in an operational context It is a must have reference for aerospace engineering students applied researchers conducting performance related studies and flight operations engineers

Air Crash Investigation: The Crash of Air France Flight 358 Hans Griffioen, 2009-06-21 On August 2 2005 Air France Flight 358 an Airbus A340 departed Paris on a flight to Toronto Canada with 297 passengers and 12 crew members on board On final approach the aircraft's weather radar was displaying heavy precipitation encroaching on the runway from the northwest The aircraft touched down 3800 feet down the runway and was not able to stop before the end of it The aircraft stopped in a

ravine and caught fire All passengers and crew members were able to evacuate the aircraft on time Only 2 crew members and 10 passengers were seriously injured during the crash and the evacuation **Air Crash Investigations: Lost Over the Atlantic, the Mysterious Disappearance of Air France Flight 447** George Cramoisi,2010-05-24 On 31 May 2009 flight AF447 an Airbus A330 200 took off from Rio de Janeiro bound for Paris At 2 h 10 a position message and some maintenance messages were transmitted by the ACARS automatic system After this nothing was heard of from the aircraft Six days later bodies and airplane parts were found by the French and Brazilian navies All 228 passengers and crew members on board are presumed to have perished in the accident A massive search by air and sea craft for the plane s black boxes failed so far

The Global Commercial Aviation Industry Sören Eriksson,Harm-Jan Steenhuis,2015-07-16 This book provides a state of the art overview of the changes and development of the civil international aircraft aviation industry It offers a fully up to date account of the international developments and structure in the aircraft and aviation industries from a number of perspectives which include economic geographical political and technological points of view The aircraft industry is characterized by very complex high technology products produced in relatively small quantities The high technology requirements necessitate a high level of R D In no other industry is it more of inter dependence and cross fertilisation of advanced technology Consequently most of the world s large aircraft companies and technology leaders have been located in Europe and North America During the last few decades many developing countries have tried to build up an internationally competitive aircraft industry The authors study a number of important issues including the political economy of the aircraft industry globalization in this industry innovation newly industrializing economies and the aircraft industry This book also explores regional and large aircraft transformation of the aviation industry in Central and Eastern Europe including engines airlines airports and airline safety It will be of great value to students and to researchers seeking information on the aircraft industry and its development in different regions Written In the Sky Mark Carr,2020-07-29 Since childhood Mark Carr

wanted to fly and fly he did firstly as a naval aviator a jet instructor and later pilot with Cathay Pacific Airways This technobiography is written for those who like him seemingly have hydraulic oil flowing through their veins The book also gives readers of a non flying background an insight into military and civil aviation Sit in the cockpit with Mark and gain a rare insight into how these amazing machines work and how the men and women in the cockpits and flight decks operate them safely and efficiently His story is also entwined with historical context including his first hand account of the infamous Australian Pilots Dispute of 1989 and life as an expatriate in Hong Kong **Comprehensive Healthcare Simulation:**

Anesthesiology Bryan Mahoney,Rebecca D. Minehart,May C. M. Pian-Smith,2019-12-17 This book functions as a practical guide for the use of simulation in anesthesiology Divided into five parts it begins with the history of simulation in anesthesiology its relevant pedagogical principles and the modes of its employment Readers are then provided with a comprehensive review of simulation technologies as employed in anesthesiology and are guided on the use of simulation for a

variety of learners undergraduate and graduate medical trainees practicing anesthesiologists and allied health providers Subsequent chapters provide a how to guide for the employment of simulation across wide range of anesthesiology subspecialties before concluding with a proposed roadmap for the future of translational simulation in healthcare The Comprehensive Textbook of Healthcare Simulation Anesthesiology is written and edited by leaders in the field and includes hundreds of high quality color surgical illustrations and photographs

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