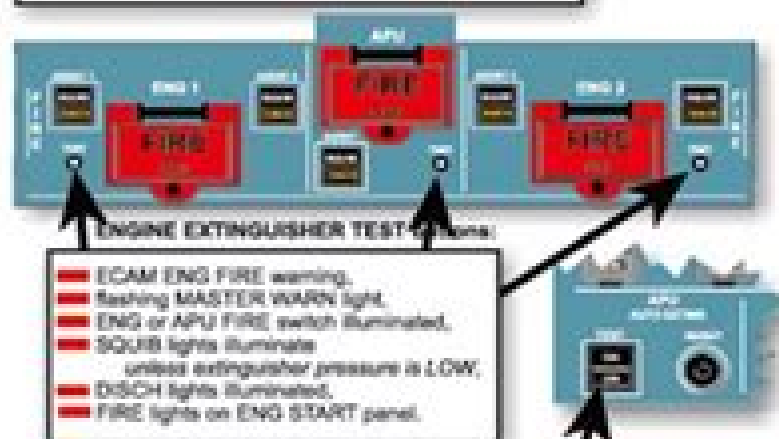


ENGINE and APU FIRE PANEL

Controls and Indicators

When FIRE WARNING detected:

- Continuous Repetitive Chime (CRC) sounds,
- appropriate FIRE light on FIRE PANEL illuminates,
- All MASTER WARNING LIGHTS illuminate,
- ECAM WARNING on the EWD,
- If an ENGINE FIRE, the appropriate FIRE LIGHT illuminates on ENG panel just aft of the throttle console.



IMPORTANT NOTE REGARDING THE APU FIRE TEST SWITCH:

Pushing the APU test switch on the FIRE panel DOES NOT cause the APU to shut down.

HOWEVER, pushing the APU TEST button on the APU AUTO EXTINGUISHING panel on the UPPER OVERHEAD PANEL **SHUTS DOWN THE APU!**



There are 4 ENG AGENT switches. They are armed when the corresponding FIRE switch is activated. The SQUIB light illuminates to indicate activation.

When armed and LIGHT/SWITCH is pushed momentarily:

- Fire Extinguisher Bottle is DISCHARGED, and
- DISCH light illuminates when pressure becomes LOW.

NOTE: Each engine has 2 dedicated FIRE EXTINGUISHERS, APU has 1 extinguisher.

Line Training A320 Manual

JOGLAR ALCUBILLA, JAVIER

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Line Training A320 Manual:

Aviation Training Ross A.Telfer,Phillip J. Moore,2017-03-02 The book is in three parts which consider training from the perspective of the learner the instructor and the organization Its intended readership includes civil and military training and senior pilots flying instructors check pilots CRM facilitators Human Factors and safety departments and aviation and educational psychologists as well as those in operations and air traffic management and regulatory authorities *The Old Bold Pilot* Capt. Shakti Lumba, Capt. Priyanka Arora,2021-11-17 Capt Lumba has been a pilot union leader and airline executive He is one of Indian aviation s legends His memoir will take you through the by lanes of Indian Civil Aviation in all its glory The book explains the Pilot Strike of 1992 the creation and success of Alliance Air possibly India s first low cost carrier the operational start up of IndiGo India s premier and most successful low cost carrier Finally it covers the safe landing at Laksh Farms a place termed as a piece of heaven on earth Readers will find this book more than just a memoir There are valuable lessons of personal behaviour and integrity that are invaluable to ruminate about In addition the historically accurate perspectives of starting and running an airline provide valuable tips for students studying aviation management or even for executives operating in that space today *Air Line Pilot* ,1994 **Airbus A320 Flight Controls** Facundo Conforti, The flight control system of an Airbus A320 is one of the most advanced achievements in aeronautical engineering It results from the integration of a set of functions and features developed within a main system that facilitates navigation aircraft maneuverability flight resource management and complete operational autonomy An A320 pilot must thoroughly understand the operation of the flight control system to maximize its capabilities and advantages These are features that few commercial aircraft possess setting this magnificent engineering masterpiece apart Operational safety is one of the cornerstones of the flight control system In this work you will learn all the details about this remarkable tool offered by Airbus which has forever changed the way we fly **Sully's Challenge: "Miracle on the Hudson" - Official Investigation & Full Report of the Federal Agency** National Transportation Safety Board,2017-02-10 How can a 10 pound bird bring down a 150 000 pounds aircraft How would you feel if you were the captain on that aircraft responsible for 155 souls What would you do to prevent the disaster How would you communicate with other crew members and the passengers How would you determine where to try to ditch the plane in an unprecedented situation How would training and experience influence your decision What lessons can we learn from Captain Sullenberger s calm actions which incredibly saved all lives onboard Successful Ditching of US Airways Flight 1549 on Hudson River by Captain Chesley Sullenberger and First Officer Jeff Skiles on January 15 2009 This edition provides all the details of this incredible event transcripts of pilot s communications and the final results of a thorough investigation They analyzed in great detail the aircraft the accident the damages the personnel on board and on the ground their training and their communications their actions during the accident the survival aspects the birds the meteorology and more Finally they drew their conclusions and put together their

recommendations based on the results of the examination to prevent similar events in the future **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 Galeo 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 2h 10min 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 **AIR CRASH INVESTIGATIONS - CRACKED SOLDER JOINT - The Crash of**

Indonesia AirAsia Flight 8501 Dirk Barreveld, 2016-02-24 On 28 December 2014 an Airbus A320 216 aircraft registered as PK AXC was cruising at 32 000 feet on a flight from Juanda Airport Surabaya Indonesia to Changi Airport Singapore with total occupants of 162 persons The Pilot in Command PIC acted as Pilot Monitoring PM and the Second in Command SIC acted as Pilot Flying PF The Flight Data Recorder FDR recorded that many master cautions activated following the failure of the Rudder Travel Limiter which triggered Electronic Centralized Aircraft Monitoring ECAM message of AUTO FLT RUD TRV LIM SYS The crew tried repeatedly to reset the computers but the autopilot and auto thrust disengaged and the flight control reverted to Alternate Law The investigation showed that the loss of electricity and the RTLU failure were caused by a cracked solder joint All occupants of the plane were killed in the accident **Comunicación y sistemas de información**

de las aeronaves JOGLAR ALCUBILLA, JAVIER, 2017-03-01 Esta obra es la documentación perfecta para formación sobre comunicaciones ATA23 cabina de pasaje ATA44 y sistemas de información a bordo ATA46 necesaria para acceder a algunos de los módulos exigidos por la EASA Parte 66 para la obtención de las licencias B1 y B2 además de a módulos específicos de los Ciclos Formativos de grado superior de Mantenimiento de Sistemas Electrónicos y Aviónicos en Aeronaves y de Mantenimiento Aeromecánico de Aviones o Helicópteros con Motor de Turbina o Motor de Pistón de la familia profesional de Transporte y Mantenimiento de Vehículos En particular la obra cubre los conocimientos indicados de acceso EASA Parte 66 a los módulos 11A 11B 12 y 13 sobre aerodinámica estructuras y sistemas de aeronaves tanto para licencias B1 como para licencias B2 Coincide con el programa del módulo de Aerodinámica Estructuras y Sistemas de Comunicación Cabina de Pasaje e Información de Aeronaves del Ciclo Formativo de grado superior de Mantenimiento de Sistemas Electrónicos y Aviónicos y desarrolla también el programa mencionado de los módulos de aviónica para los cuatro ciclos superiores en mantenimiento aeromecánico El libro está dividido en tres bloques independientes En el primero se tratan los sistemas de comunicación gen

ricos en el segundo se abordan los sistemas de comunicaci n espec ficos de la aeronave tanto externos como internos en el tercero se describe el desarrollo de los sistemas de informaci n a bordo Al comienzo de la obra Cap tulo 1 se tratan los distintos tipos de modulaci n anal gica as como los receptores y transmisores elementales Se hace aplicaci n de los sistemas de comunicaci n m ltiple adem s de una descripci n de los elementos radiantes antenas y su uso en aeron utica y se concluye con una serie de problemas y sus soluciones para cada apartado Tambi n se ve como en aeronaves los sistemas de comunicaci n se clasifican en externos para radiotransmisi n Cap tulo 2 e internos para interfon a y entretenimiento del pasaje Cap tulo 3 El ltimo cap tulo trata de los sistemas de informaci n a bordo Cap tulo 4 El libro concluye con una serie de anexos de inter s que aportan informaci n relacionada con las comunicaciones y la informaci n a bordo *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 Einführung neuer Technologien, um der Nachfrage nach steigender Kapazität gerecht zu werden. Insbesondere das System Flughafen stellt hierbei oftmals den limitierenden Faktor dar. Schlechte Sichtbedingungen und die unzureichende bodenseitige Ausrüstung mit Navigationseinrichtungen können für Einschränkungen in der Aufrechterhaltung des bestehenden Verkehrsflusses sorgen, insbesondere bei Landeanflügen. Das konventionelle Instrumentenlandesystem besteht aus einer Vielzahl an technischer Komponenten, die hohen Aufwand hinsichtlich Wartung und Betrieb verursachen. Kleine Flughäfen sind oft nur teilweise oder gar nicht mit den entsprechenden Bodenkomponenten ausgerüstet, so dass der Flugbetrieb bei bestimmten Sichtbedingungen vollständig eingestellt werden muss. Neue satellitengestützte Anflugverfahren bieten die Möglichkeit, den Flugbetrieb auch bei schlechten Sichtbedingungen aufrechtzuerhalten, unabhängig von der bisher notwendigen Bodeninfrastruktur. Diese bieten mittlerweile ebenso eine auf der barometrischen Höhenmessung oder einem aufgewerteten Satellitensignal basierende vertikale Flugführungskomponente. Allerdings besteht mit der Verwendung entsprechender Anflugverfahren auch eine neue mögliche Fehlercharakteristik des vertikalen Flugführungssignals. Ist ein Fehler beim auf elektromagnetischen Funkwellen basierenden Instrumentenlandesystem winkelförmig, dehnt sich das Luftfahrzeug dem Sender am Boden nähert, umso kleiner wird die absolute Ablage zum Sollanflugweg. Ist dieser bei satellitengestützten Anflügen konstant über den gesamten Endanflug. Eine große 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 Ablage zum 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.

tzen 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 Entscheidungsh hen von lizenzierten Verkehrspiloten getestet Dabei sollte neben der grunds tzlichen Funktionalit t auch die operative Einsetzbarkeit in den bestehenden Ablauf der Handlungsrouinen 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 Fehlanflugs erfolgte direkt und unverz glich wodurch das Luftfahrzeug auch bei sehr niedriger Entscheidungsh he noch innerhalb des Hindernisfreibereiches blieb Im Gegensatz dazu wurde bei den Versuchsteilnehmern denen nicht das neue System zur Verf gung stand die Entscheidung eher z gerlich und oftmals viel zu sp t getroffen was zu einem Verlassen des Hindernisfreibereichs f hrte Das Situationsbewusstsein der Luftfahrzeugf hrer zum Erkennen vertikaler Fehler beim Erreichen der Entscheidungsh he wurde durch das Advanced Approach Light System wesentlich erh ht Die Integration in bestehende Arbeitsrouinen und der operative Einsatz erfolgten bei hoher Akzeptanz problemlos durch die Versuchsteilnehmer

Moody's Transportation Manual ,2000 *Moody's International Manual* ,1994 *Aerospace* ,1997 *Airbus A320 Autoflight System* Facundo Conforti, The flight system of an Airbus A320 is one of the most advanced in the aeronautical market It results from the combination of a set of functions and features developed within a primary system that enables the aircraft s navigation flight resource management and complete operational autonomy An A320 pilot must thoroughly understand the operation of this automatic flight system to fully utilize its capabilities and advantages features that few commercial aircraft possess and which in this magnificent work of engineering make all the difference Operational safety is one of the pillars of the automatic flight system In this work you will learn all the details related to this remarkable tool offered by Airbus which has forever changed the way we fly

Moody's Industrial Manual ,1994 Covering New York American regional stock exchanges international companies *Plane Crash* George Bibel,Robert Hedges,2018-03-14 Cover Half Title Title Copyright Dedication Contents Preface 1 Takeoff 2 Takeoff Never Mind 3 Controlling the Plane 4 Vanished 5 Practice Makes Perfect 6 Turbulence 7 The 168 Ton Glider 8 Approach 9 Landing Epilogue Notes References Index A B C D E F G H I J K L M N P R S T U V W Y

Human-centered Aircraft Automation: A Concept and Guidelines Charles E. Billings,1991 *Human-Centered Design and User Experience* Tareq Ahram and Christianne Falcão,2023-12-04 Proceedings of the AHFE International Conference on Human Factors in Design Engineering and Computing AHFE 2023 Hawaii Edition Honolulu Hawaii USA 4 6 December 2023

Urban Terrorism N. C. Asthana,Anjali Nirmal,2009 Outrageous myths have been created and perpetrated about terrorism in general and terrorism by Muslims in particular There are two reasons for it One is of course genuine ignorance about things Islamic The other reason is more sinister Myths are created and perpetuated because that keeps everyone in business By spinning yarns about the most horrible things the terrorists are capable of doing the media

ensures that they have a never ending supply of sensational material with which to keep the people hooked it also enables the intelligence agencies and security forces to appear more relevant and expand their turf in the process The myths must be busted because they tend to settle deep in the collective subconscious and ultimately come to influence policy decisions The media for example would have you believe that we have not been able to eradicate terrorism only because we do not have enough commandos everywhere The fact is that terrorism would not be finished by killing a few terrorists Bomb blasts continue to take place in spite of the arrests of the masterminds As long as we do not address the root cause there would be many more willing to kill and get killed Victory against terrorism can be achieved only if you have completely understood the fundamental reasons of terrorism the motivation of the terrorists the intrinsic weaknesses of the targets the innate strength of the way of the terrorist and the follies of the approach that you have persisted with so far If a nation has floundered in its war against terrorism it is because it has never had a serious and honest to God analysis of terrorism Hence this book Exhaustive yet attractive informative yet interesting and above all extremely hard hitting it is the ultimate encyclopedia of terrorism Aircraft & Aerospace ,1990 **AIR CRASH INVESTIGATIONS MIRACLE ON THE HUDSON RIVER The Ditching of US Airways Flight 1549** Pete Collins, Editor,2014-04-22 On January 15 2009 about 1527 eastern standard time US Airways flight 1549 an Airbus Industrie A320 214 N106US experienced an almost complete loss of thrust in both engines after encountering a flock of birds and was subsequently ditched on the Hudson River about 8 5 miles from LaGuardia Airport LGA New York City New York The flight was en route to Charlotte Douglas International Airport Charlotte North Carolina and had departed LGA about 2 minutes before the in flight event occurred The 150 passengers and 5 crewmembers evacuated the airplane via the forward and overwing exits One flight attendant and four passengers were seriously injured and the airplane was substantially damaged beyond repair The National Transportation Safety Board determines that the probable cause of this accident was the ingestion of large birds into each engine which resulted in an almost total loss of thrust in both engines and the subsequent ditching on the Hudson River

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