fcom a320

fcom a320 refers to the Flight Crew Operating Manual specifically designed for the Airbus A320 aircraft. This document is an essential resource for pilots and flight crew members, providing comprehensive operational procedures, aircraft systems descriptions, limitations, and safety information. The FCOM A320 ensures that flight operations adhere to regulatory standards while maintaining efficiency and safety in all phases of flight. Understanding the various sections and contents of the FCOM A320 is crucial for flight crew proficiency and compliance. This article explores the structure, key components, and practical applications of the FCOM A320, offering an in-depth overview beneficial to aviation professionals and enthusiasts alike.

Overview of the FCOM A320

The FCOM A320 is the primary operational manual for pilots operating the Airbus A320 family aircraft. It is developed by Airbus and regularly updated to reflect changes in procedures, systems, and regulatory requirements. The manual provides detailed information that supports flight crew decision-making and ensures consistent execution of standard operating procedures. The FCOM is a critical document used during training, pre-flight preparation, and in-flight operations, offering both theoretical and practical guidance tailored to the A320 series.

Structure and Organization

The FCOM A320 is systematically organized to facilitate easy access to critical information. It is divided into several volumes and chapters, each dedicated to specific aspects of aircraft operation. The structure generally includes descriptions of aircraft systems, normal and abnormal procedures, limitations, and performance information. The clear arrangement allows flight crews to quickly locate relevant data during routine operations or emergency situations.

Volumes and Chapters

Typically, the FCOM A320 is split into multiple volumes, such as:

- Volume 1: Normal Procedures
- Volume 2: Abnormal and Emergency Procedures
- Volume 3: Aircraft Systems Description
- Volume 4: Performance and Limitations

Each volume contains chapters that delve into specific topics, providing detailed explanations and standardized checklists.

Key Sections and Content

The FCOM A320 covers a wide range of critical information required for safe and efficient aircraft operation. Each section is designed to address different operational needs and scenarios.

Normal Procedures

This section details the standard operating procedures for all phases of flight, including pre-flight checks, engine start, taxi, takeoff, climb, cruise, descent, approach, and landing. It includes step-by-step instructions, checklists, and callouts to ensure flight crew coordination and compliance with Airbus operating philosophy.

Abnormal and Emergency Procedures

In the event of system failures or emergencies, this section provides predefined procedures to manage and mitigate risks. It guides pilots through fault isolation, corrective actions, and safe aircraft handling under various abnormal conditions.

Aircraft Systems Description

A detailed technical description of the A320 systems, including avionics, flight controls, hydraulics, electrical systems, engines, and environmental control systems. Understanding these systems is essential for troubleshooting, decision-making, and efficient aircraft operation.

Limitations and Performance Data

This section outlines the operational limits of the aircraft, such as maximum takeoff weight, speed restrictions, and environmental limitations. It also provides performance charts and data to aid in

flight planning, ensuring compliance with safety margins and regulatory requirements.

Operational Procedures

The operational procedures within the FCOM A320 emphasize standardization, safety, and efficiency. They serve as the foundation for pilot training and in-flight conduct, ensuring that all actions are performed consistently under normal and abnormal conditions.

Standard Operating Procedures (SOPs)

SOPs within the FCOM define the roles and responsibilities of flight crew members during all flight phases. This includes communication protocols, checklist usage, and coordination to maintain situational awareness and effective cockpit resource management.

Checklists

Checklists are a fundamental element in the FCOM A320, designed to minimize human error and ensure thoroughness. They cover normal, abnormal, and emergency situations, guiding pilots through necessary steps in a logical sequence.

Aircraft Systems Description

The detailed systems description in the FCOM A320 is crucial for understanding the complex mechanisms and operations of the aircraft. It supports pilots in identifying system behaviors, diagnosing issues, and applying appropriate corrective measures.

Flight Control Systems

Describes the fly-by-wire technology employed in the A320, including control laws, flight envelope protections, and pilot interface. This innovative system enhances handling qualities and safety by preventing exceedance of aircraft limits.

Avionics and Navigation Systems

Details the integrated avionics suite, including flight management systems, autopilot, communication radios, and navigation aids. Mastery of these systems is vital for accurate flight path management and compliance with air traffic control requirements.

Powerplant and Fuel Systems

Explains engine types, control systems, fuel management, and monitoring. Proper understanding of

these systems allows pilots to optimize performance and manage fuel efficiently throughout the flight.

Limitations and Performance Data

Adherence to aircraft limitations is mandatory for safe operation. The FCOM A320 provides comprehensive data on structural, operational, and environmental limits, along with performance parameters essential for flight planning and execution.

Operational Limits

Includes maximum and minimum operational speeds, weight limits, center of gravity ranges, and environmental constraints such as temperature and altitude ceilings. These limits ensure the aircraft operates within certified safety margins.

Performance Charts

Performance charts cover takeoff and landing distances, climb rates, fuel consumption, and engine thrust settings. Pilots use these charts to calculate necessary parameters based on current conditions, ensuring safe and efficient flight operations.

Usage and Importance in Flight Operations

The FCOM A320 is an indispensable tool in everyday flight operations. It supports pilot training, standardizes procedures, and enhances safety by providing authoritative guidance aligned with regulatory standards and manufacturer recommendations.

Pilot Training and Qualification

Flight crews rely on the FCOM during initial and recurrent training to familiarize themselves with aircraft systems and procedures. This knowledge foundation is critical for earning and maintaining type ratings on the A320.

In-Flight Reference

During flight, the FCOM serves as a quick reference for procedures and troubleshooting. Its structured format allows pilots to respond effectively to both routine and unexpected situations.

Regulatory Compliance

Using the FCOM ensures that flight operations comply with aviation authority requirements and

manufacturer standards, reducing risks and contributing to the overall safety culture within airlines operating the A320.

Summary of Key Features

- Comprehensive operational procedures covering normal, abnormal, and emergency scenarios
- Detailed systems descriptions facilitating understanding and troubleshooting
- Clear presentation of aircraft limitations and performance data for safe flight planning
- Standardized checklists enhancing crew coordination and safety
- Regular updates reflecting technological and regulatory changes

Frequently Asked Questions

What is the FCOM for the Airbus A320?

The FCOM (Flight Crew Operating Manual) for the Airbus A320 is a comprehensive manual that provides detailed operating procedures, limitations, and systems descriptions necessary for the safe and efficient operation of the A320 aircraft.

Where can pilots access the Airbus A320 FCOM?

Pilots can access the Airbus A320 FCOM through their airline's electronic flight bag (EFB), company intranet, or official Airbus documentation portals. Some airlines provide it via dedicated apps or secured websites.

How often is the Airbus A320 FCOM updated?

The Airbus A320 FCOM is regularly updated to reflect changes in regulations, procedures, and aircraft modifications. Updates can occur several times a year, depending on regulatory and manufacturer directives.

What topics are covered in the A320 FCOM?

The A320 FCOM covers aircraft systems descriptions, normal and abnormal operating procedures, limitations, performance data, and emergency handling instructions essential for flight crew operations.

Can the A320 FCOM be used for pilot training?

Yes, the A320 FCOM is an essential resource in pilot training, providing detailed procedural guidance and system knowledge that pilots must understand to operate the aircraft safely and efficiently.

Is the Airbus A320 FCOM standardized across all operators?

While the core content of the Airbus A320 FCOM is standardized by Airbus, individual airlines may customize certain sections to reflect company-specific procedures and operational policies.

Additional Resources

1. *Airbus A320 FCOM: Flight Crew Operating Manual*
This comprehensive manual provides detailed procedures and checklists essential for the operation of the Airbus A320. It covers normal, abnormal, and emergency operations, offering pilots an authoritative reference to aircraft systems and flight management. The manual is indispensable for both training and in-flight reference.

2. *Understanding the Airbus A320 Flight Control and FCOM Procedures*
This book breaks down the complex flight control systems of the A320, integrating FCOM procedures to enhance pilot comprehension. It explains how flight controls interact with onboard systems, helping pilots to better anticipate and manage aircraft behavior. The guide is well-suited for pilots transitioning to the Airbus family.

3. *Airbus A320 Systems and FCOM Reference Guide*
Designed as a quick-reference companion, this guide summarizes key aircraft systems as outlined in the FCOM. It includes diagrams, system overviews, and operational limitations, making it ideal for pilots and engineers needing rapid access to technical data. The book ensures familiarity with the A320's intricate systems.

4. *Mastering Abnormal and Emergency Procedures on the A320 FCOM*
Focusing on scenarios beyond normal operations, this book delves into the Airbus A320's abnormal and emergency procedures as detailed in the FCOM. It offers case studies and best practices to improve pilot response during in-flight contingencies. The material is vital for safety-focused training programs.

5. *FCOM Insights: Airbus A320 Operational Techniques*
This title provides practical insights into the operational techniques recommended in the A320 FCOM. It highlights nuances in flight management, system usage, and cockpit resource management, aiming to optimize flight efficiency and safety. Pilots will find tips to refine their standard operating procedures.

6. *The Airbus A320 FCOM Explained: A Pilot's Handbook*
Written specifically for flight crews, this handbook translates the technical language of the FCOM into clear, understandable terms. It bridges the gap between theory and practice, making it easier for pilots to apply procedural knowledge during flights. The book supports training and recurrent education.

7. *Airbus A320 FCOM: Systems Integration and Flight Management*
This book explores how different A320 systems integrate according to FCOM guidelines to support flight management tasks. It covers avionics, autopilot, and navigation systems, offering a holistic view of aircraft operations. Its detailed explanations assist pilots in managing complex system interactions.

8. *Practical Guide to Airbus A320 FCOM Abnormal Procedures*
A focused manual on abnormal procedures, this guide helps pilots quickly understand and execute the FCOM's prescribed actions during system malfunctions. It includes flowcharts and decision-making aids to enhance situational awareness. The book is a valuable tool for emergency preparedness.

9. *Airbus A320 Flight Crew Operating Manual: Training and Reference*
This edition serves as both a training resource and an in-flight reference, combining comprehensive FCOM content with instructional commentary. It supports pilots in mastering the A320's systems and procedures through detailed explanations and practice scenarios. Ideal for both new and experienced flight crews.

Fcom A320

Unlocking the Airbus A320 Family: A Comprehensive Guide to the FCOM

The Airbus A320 Family, encompassing variants like the A319, A320, and A321, dominates the short-to-medium-haul air travel market, making a deep understanding of its Flight Crew Operating Manual (FCOM) crucial for pilots, aviation enthusiasts, and industry professionals. This ebook provides a thorough exploration of the A320 FCOM, its structure, key functionalities, and practical applications, enriched with insights from recent research and best practices.

Ebook Title: Mastering the Airbus A320 FCOM: A Pilot's and Enthusiast's Guide

Contents Outline:

Introduction: Understanding the FCOM's Role and Importance in A320 Operations.
Chapter 1: FCOM Structure and Navigation: Decoding the FCOM's organization, indices, and effective search strategies.
Chapter 2: Normal Procedures: Detailed examination of critical normal procedures, including takeoff, climb, cruise, descent, and landing.
Chapter 3: Abnormal and Emergency Procedures: A deep dive into handling unexpected situations, malfunctions, and emergencies.
Chapter 4: Performance Calculations and Flight Planning: Understanding the FCOM's role in flight planning and performance calculations using real-world examples.
Chapter 5: Systems Operation and Understanding: Detailed explanation of the A320's major systems

and their representation within the FCOM.
Chapter 6: Weight and Balance: A comprehensive guide to weight and balance calculations and their impact on flight operations as outlined in the FCOM.
Chapter 7: Practical Application and Case Studies: Real-world scenarios and practical exercises to solidify understanding of FCOM procedures.
Conclusion: Recap of key learnings and resources for continued learning and development.

Detailed Explanation of Each Outline Point:

Introduction: This section will establish the significance of the FCOM in safe and efficient A320 operations, emphasizing its role as the primary reference document for pilots. It will also briefly introduce the structure of the ebook.

Chapter 1: FCOM Structure and Navigation: This chapter will detail the organizational structure of the A320 FCOM, including its various sections, appendices, and indices. It will provide practical tips and strategies for efficiently navigating and searching within the document, crucial for quick access to vital information during flight.

Chapter 2: Normal Procedures: This chapter will systematically cover standard operational procedures for all phases of flight, from pre-flight checks and takeoff to climb, cruise, descent, approach, landing, and post-flight procedures. Each procedure will be explained in detail, referencing relevant sections of the FCOM.

Chapter 3: Abnormal and Emergency Procedures: This crucial chapter will address handling unexpected events, including system malfunctions, failures, and emergencies. It will systematically review the procedures outlined in the FCOM for addressing these scenarios, emphasizing decision-making and pilot resource management (PRM). Recent research on human factors in emergency response will be incorporated.

Chapter 4: Performance Calculations and Flight Planning: This chapter will delve into the performance aspects of the A320, utilizing the FCOM's performance charts and data. It will guide readers through flight planning considerations, including weight and balance, fuel calculations, and performance limitations, with practical examples.

Chapter 5: Systems Operation and Understanding: This chapter will provide a comprehensive overview of the A320's key systems, including flight controls, hydraulics, electrical systems, environmental control, and avionics. It will clarify how these systems are described and referenced within the FCOM.

Chapter 6: Weight and Balance: This chapter will focus specifically on weight and balance calculations for the A320, explaining the importance of accurate calculations for safe and efficient flight. It will detail the methodology outlined in the FCOM and provide examples to clarify the process.

Chapter 7: Practical Application and Case Studies: This chapter will consolidate the knowledge acquired in previous chapters through real-world scenarios and case studies, allowing readers to apply FCOM procedures in practical situations. These examples will reinforce understanding and highlight potential challenges.

Conclusion: This section will summarize the key takeaways from the ebook and point readers toward

additional resources for further learning and professional development. It will reiterate the importance of continued proficiency with the A320 FCOM.

Keywords: Airbus A320, FCOM, Flight Crew Operating Manual, Pilot Training, Aviation, Normal Procedures, Abnormal Procedures, Emergency Procedures, Flight Planning, Performance Calculations, Weight and Balance, Systems Operation, Airbus A319, Airbus A321, A320neo, A320ceo, Aircraft Systems, Pilot Resource Management (PRM), Human Factors, Aviation Safety.

(Note: Due to the complexity and length of a full FCOM explanation, the following sections provide a representative sample, not a complete reproduction. A full ebook would require significantly more detail.)

Chapter 2: Normal Procedures (Excerpt)

Takeoff: The FCOM provides detailed steps for takeoff, including before-takeoff checks, engine start, taxiing, runway alignment, takeoff configuration, and initial climb. Understanding V1 (decision speed), Vr (rotation speed), and V2 (climb speed) is critical. Recent research emphasizes the importance of crew coordination and adherence to standardized procedures for safe and efficient takeoffs.

Chapter 3: Abnormal and Emergency Procedures (Excerpt)

Engine Failure: In the event of an engine failure during takeoff or climb, the FCOM outlines procedures for handling the situation, including identifying the failed engine, configuring the aircraft for single-engine operation, and executing an appropriate landing. Recent research highlights the importance of effective communication and CRM (Crew Resource Management) during emergencies.

Chapter 7: Practical Application and Case Studies (Excerpt)

Scenario: Let's consider a scenario where an A320 experiences a hydraulic failure during approach. Using the FCOM, the pilot must assess the specific system affected, determine the appropriate alternate procedures, communicate with the crew, and execute a safe landing. This case study would walk through the relevant sections of the FCOM, analyzing the decisions to be made and the actions required.

FAQs

1. What is the FCOM? The Flight Crew Operating Manual (FCOM) is the primary operating document for Airbus A320 pilots, detailing normal, abnormal, and emergency procedures.

2. How often is the FCOM updated? The FCOM is regularly updated with the latest information from Airbus and regulatory bodies, ensuring that procedures are aligned with current standards. Airlines often issue their own supplementary material as well.

3. Is the FCOM available digitally? Yes, most airlines provide digital versions of the FCOM for pilots' use in the cockpit and for study.

4. What are the key differences between the A320ceo and A320neo FCOMs? While the core principles remain similar, the newer A320neo version will contain information specific to its updated systems and technologies.

5. Where can I find training materials related to the FCOM? Airlines provide specific training tailored to their A320 FCOM. Additionally, independent aviation training centers offer FCOM-focused courses.

6. Can I access the FCOM online freely? No, the FCOM is a confidential document exclusively for certified pilots and personnel authorized by the airline.

7. What is the role of the FCOM in accident investigation? The FCOM is crucial during accident investigation as it helps determine whether procedures were followed correctly and identifies potential areas for improvement.

8. How important is understanding performance limitations as outlined in the FCOM? Understanding performance limitations is vital for safe and efficient flight, ensuring the aircraft operates within its certified parameters.

9. What role does the FCOM play in pilot resource management (PRM)? The FCOM provides a structured framework for efficient decision-making and resource allocation during all phases of flight, especially critical during emergencies.

Related Articles:

1. Airbus A320 Systems Overview: A detailed explanation of the major systems within the A320 aircraft.
2. A320 Flight Planning and Performance: Focusing on flight planning, performance limitations, and fuel calculations.
3. Understanding Airbus A320 Avionics: An in-depth look at the avionics suite of the A320, including its functionalities and operation.
4. A320 Emergency Procedures Explained: A comprehensive guide to handling various emergencies encountered in A320 operations.
5. Human Factors in A320 Operations: Analyzing the role of human factors in aircraft safety and accident prevention.
6. Airbus A320 Maintenance and Checks: Discussing the routine maintenance procedures and checks required for the A320.
7. Comparing Airbus A320 Variants: Highlighting the key differences between various A320 family members (A319, A320, A321).
8. The Future of Airbus A320 Technology: Exploring upcoming advancements and technological integrations for the A320 family.
9. Career Opportunities in Airbus A320 Maintenance: Outlining the various career paths available in the maintenance sector for the A320.

fcom a320: A320 Pilot Handbook Mike Ray, 2013-04-13 If you are either an Airbus-driver or a serious flight simmer, this collection of information is something that should pique your interest. Learning to understand and operate one of the world's most complex machines is a tall request from a simple book like this ... and Captain Mike Ray is up to the task. His treatment of the airplane systems and operational techniques is written in an interesting and entertaining way ... and makes learning the difficult and complex ... well, almost easy. This over 400 page document is lavishly illustrated in full color to take advantage of the increased learning potential in the use of color. There can be no doubt that the Airbus A320 is a color driven systems airplane and this book attempts to take full advantage of the use of color in describing and illustrating the operations of the airplane systems and controls. Whatever price penalty is incurred in the purchasing of this color volume is well worth the investment in increased learning potential.

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like a supplement and not for real flight. In this case refer to the original FCOM from Airbus. Let's start to fly the amazing A320 with our collection of books and re- member, it's not a technical manual so enjoy it!

fcom a320: Airbus A320 Facundo Conforti, 2020-08-17 Welcome to the most complete manual about the MCDU operations based on the FMS system of the great A320. This manual describes all functions of the MCDU (Multi-Function Control and Display Unit) for Airbus A320 including definitions, normal operations and abnormal ope- rations in real flights. Learn all about each part of the MCDU, each key, each function and every detail you need as a pilot. After learning the all theory concepts, you will learn to operate the MCDU in different flights, including domestic flights, international flight and abnormal flights with emergencies. At the end of this book, you will be ready for operating the MCDU like a professional pilot.

fcom a320: Airbus A320 Encyclopedia Facundo Conforti, 2022-03-07 In a constantly growing aeronautical industry, the demand for professional pilots is increasing. Year after year thousands of applicants come to the airlines looking for a job, but only a small fraction of them get the job, and of that small fraction, only a very select group are the pilots who manage to develop their professional careers in a company. The other pilots don't get achieve their goals for different reasons, one of them is the lack of knowledge that leads them to face challenges that they cannot overcome. In this guide we will try to provide each reader with the necessary tools to learn all the most relevant aspects of one of the most flying commercial aircraft in the world. A complete guide that covers the knowledge of all the aircraft's systems, the Airbus flight philosophy, and a complete analysis of the operation of the FMS flight system where the reader will learn to operate the flight computer effectively and in various situations that may occur in real life. Finally you will learn all about a normal operation in a complete day as a pilot in command of A320. After learning the contents of this A320 encyclopedia, the pilot will arrive at the new job with a solid knowledge of the aircraft he will fly and this will make his learning process within the airline reach the highest academic and professional level.

fcom a320: *Airbus A320 Encyclopedia II* Facundo Conforti, 2022-03-11 The second volume of the A320 encyclopedia will take the study of the aircraft to a higher level. After having learned everything about aircraft systems in the Volume 1 encyclopedia, all about the operation of the MCDU system and all about the normal operation of the aircraft, it is time to know the abnormal operation of the aircraft. In this volume 2, the A320 encyclopedia will teach you the abnormal operation of all aircraft systems, their limitations, the operation of the QRH and the management of major emergencies that may occur in flight. Be ready for studying the aircraft as never before in any book, and remember, Knowledge is power! You will be the best A320 pilot!

fcom a320: *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 Gale o 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

fcom a320: *101 Flight Lessons Airbus A320* Facundo Conforti, The collection 101 Flight Lessons has been created to cover the main theoretical concepts of the most relevant aeronautical subjects at each stage of a pilot, air traffic controller, and cabin crew career. 101 Flight Lessons includes a summary of key aeronautical topics such as meteorology, aerodynamics, flight instruments, maneuvers, airports, and a set of lessons that every pilot, whether in training or

already graduated, should always keep in mind. This work is dedicated not only to all aviation personnel in general but also to aviation enthusiasts who enjoy a pleasant read for recreational and educational purposes. This work is dedicated not only to all aviation personnel in general but also to aviation enthusiasts who enjoy a pleasant read for recreational and educational purposes.

fcom a320: *Learning about A320* Facundo Conforti, 2022-11-28 Learning everything about an airplane is the job of each pilot, but how can we get it? Or where we should we start? Lear all about an aircraft takes a long time and a several flight hours of experience, but the right way to start is reading this book. A little introduction to the Airbus history, to the airbus flight philosophy, the main aircraft limitations and its main systems.

fcom a320: AIRBUS A320. Normal Operation Facundo Conforti, 2021-07-08 Welcome to one of the most advanced versions of the Aeronautical Library. In this new work of the AIRBUS A320 series we will know the normal operation of the aircraft during a real commercial flight from the city of Malaga, Spain (LEMG), to the city of Valencia, Spain (LEVC). The objective of this manual is that each reader knows everything that happens during a normal flight, from the time the pilots arrive at the airport, prepare the cabin, develop the flight and until they reach their destination. AIRBUS A320 Normal Operation is the ideal complement to the rest of the A320 collection in all its volumes. Each step explained with the most precise detail and graphics of the panels that the pilot will operate in each instance of the flight, added to the cartography that should be used for a flight of these circumstances. And as an added value, all communication structures between the pilot and the controller. A practical and entertaining guide how only the Aeronautical Library can offer. A subject as complex as the operations of A320, it becomes a simple and enjoyable topic to read in this entertaining and didactic manual.

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fcom a320: *Conceptual Aircraft Design* Ajoy Kumar Kundu, Mark A. Price, David Riordan, 2019-04-08 Provides a Comprehensive Introduction to Aircraft Design with an Industrial Approach This book introduces readers to aircraft design, placing great emphasis on industrial practice. It includes worked out design examples for several different classes of aircraft, including Learjet 45, Tucano Turboprop Trainer, BAe Hawk and Airbus A320. It considers performance substantiation and

compliance to certification requirements and market specifications of take-off/landing field lengths, initial climb/high speed cruise, turning capability and payload/range. Military requirements are discussed, covering some aspects of combat, as is operating cost estimation methodology, safety considerations, environmental issues, flight deck layout, avionics and more general aircraft systems. The book also includes a chapter on electric aircraft design along with a full range of industry standard aircraft sizing analyses. Split into two parts, Conceptual Aircraft Design: An Industrial Approach spends the first part dealing with the pre-requisite information for configuring aircraft so that readers can make informed decisions when designing vessels. The second part devotes itself to new aircraft concept definition. It also offers additional analyses and design information (e.g., on cost, manufacture, systems, role of CFD, etc.) integral to conceptual design study. The book finishes with an introduction to electric aircraft and futuristic design concepts currently under study. Presents an informative, industrial approach to aircraft design Features design examples for aircraft such as the Learjet 45, Tucano Turboprop Trainer, BAe Hawk, Airbus A320 Includes a full range of industry standard aircraft sizing analyses Looks at several performance substantiation and compliance to certification requirements Discusses the military requirements covering some combat aspects Accompanied by a website hosting supporting material Conceptual Aircraft Design: An Industrial Approach is an excellent resource for those designing and building modern aircraft for commercial, military, and private use.

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fcom a320: AIR CRASH INVESTIGATIONS CAPTAIN IN PANIC The Crash of Armavia Flight 967 Hans Griffioen, editor, 2012-09-01 On 2 May 2006 Armavia Flight RNV 967, an Airbus A320, was on its way from Zvartnots (Yerevan, Armenia) to Adler (Sochi, Russia). There were 113 occupants on board: 105 passengers (including 5 children and 1 baby), 2 pilots,1 aircraft engineer and 5 flight attendants. Upon approaching Sochi there was confusion in regard to the weather for the scheduled landing. Finally the captain decided to return to Zvartnots, a short while later he reconsidered his decision and started the approach to Sochi after all. Just before final landing air traffic control told the captain to abort the landing. At 22:13 the aircraft struck the water, it broke up on impact, killing all aboard. The investigation concluded that the crash of Armavia Flight 967

was a Controlled Flight Into Terrain (CFIT), specifically water, while conducting a climbing manoeuvre, after an aborted approach, along with inadequate control inputs from the Captain to Sochi airport at night with weather conditions below landing minimums for runway 06.

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Smoke/Fumes cases, Dual FMGC failure, Engine malfunctions of all levels, Fuel leak, Dual Hydraulic faults, Landing gear problems, Rejected takeoff and evacuation, Upset preventions and much more. Technical revision gives a good study highlight for all the Airbus A320 systems including Air conditioning, Ventilation and Pressurisation, Electrical, Hydraulics, Flight-Controls and Automation, Landing gear, Pneumatics, etc. The later chapters of the book covers useful topics such as aircraft limitations, low visibility procedures, RVSM/PBN, MEL, CDL and other supplementary information such as cold weather and icing, turbulence and windshears in more detail. The book will no doubt be a great asset to any trainee or existing Airbus Pilot for both revision and training purposes including refresher training.

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be read just like a supplement and not for real flight. In this case refer to the original FCOM from Airbus. Let's start to fly the amazing A320 with our collection of books and remember, it's not a technical manual so enjoy it!

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