

BLEED

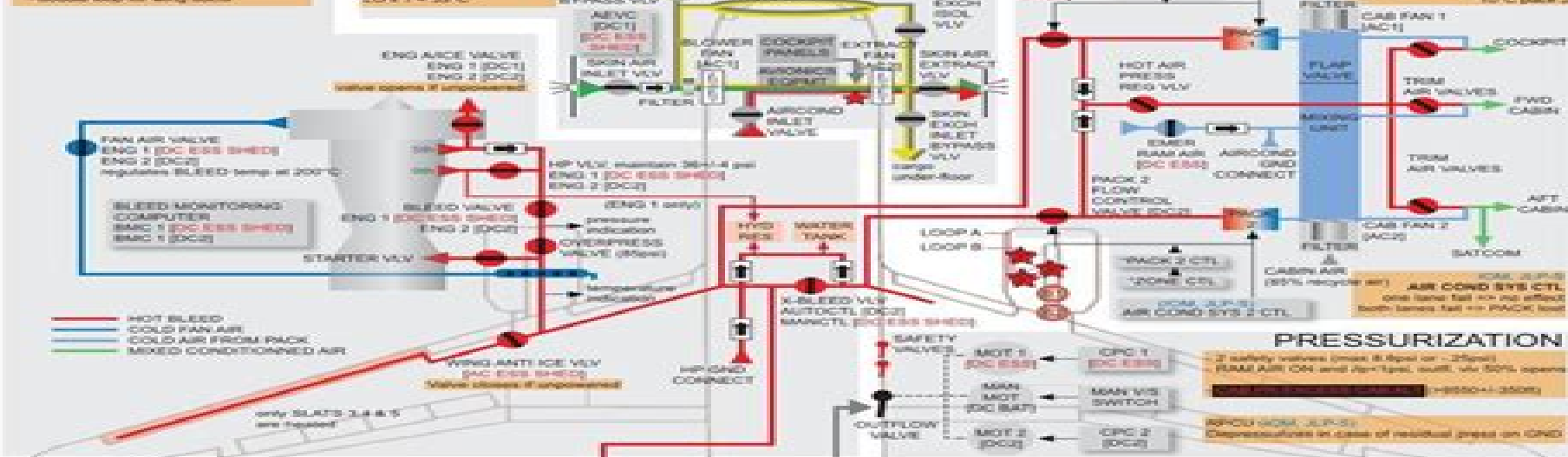
CAUTION, do not use HP GND air with APU bleed

Regulated pressure 45 +/- 5 psi
Leak detection
- single loop for APU and pylon ducts
- double loop for wing ducts

AVIONICS VENTILATION

CONFIGURATIONS:
CLOSED: on GND (max 45°C in FLT (max 52°C/35°C)
INTERMEDIATE: if (max 32°C/35°C) then EXTRACT VLV partially opens
- OPEN: on GND (max 45°C/35°C)
- SMOKE CONFIG

FAN SPD (NOM JLP-S)
H if T > 40°C
LO if T > 35°C



APU

LIMITATIONS:
RPM max: 95%, max 102% (auto shut down)
running EGT max 660°C (Basic) or 750-742
start EGT max 900°C > 25000R
start EGT max 962°C > 25000R
LOW OIL LEVEL: < 15 lbs APU max
start cycles: 5, then 5, then 5, 60min
Envelope:
START with AC power up to 30000R
START with EMER BLEED start up to 25000R
BLEED ON 2 packs max 15000R, 1 pack max 20000R
BLEED ON for engine start max 20000R
BLEED for WING ANTI ICE not permitted
APU FUEL FLOW ~ 130 kg/hr



FUEL A319/A320

TOTAL TANKS CAPACITY (den 0.785kg/l)
18728kg / 19004kg (JLP-S)

OUTER to INNER TRANSFER
- XFR valves open when (POWER) lower ~ 750kg
- F/O only with Outer TK full
- Automatic XFR after landing
(in event, master REFUEL panel PWR ON)
or transfer via DEFUEL/XFR valve

FOR CH1 [DC ESS SHED] CH2 [DC]

OUTER TANKS 2 x 5534kg

FUEL IMBALANCE A319/A320
WING TK Fuel max 15000kg
INNER TK 4300kg max 15000kg
INNER TK 2350kg max 2350kg
no limitations below 2350kg
OUTER TK max 5000kg, if OUTER+INNER same
or (WING) of empty OUTER equal or higher (up to 30 of
opposite INNER)

refueling / defueling lines
bleeding lines

LP VALVE MOT 1 [DC] MOT 2 [DC]

INNER TANKS 2 x 5435kg* 2 x 5573kg (JLP-S)

PUMP LH1 [AC1] [AC2] [DC1] [DC2]
PUMP LH2 [AC1] [AC2] [DC1] [DC2]
PUMP CTRG [AC1] [AC2] [DC1] [DC2]

REFUEL VALVE [DC] (refueling on batteries with
ignition)

REFUEL COUPLING

TANK PUMPS

FUEL TEMPERATURE
JET A1 max -43°C max +54°C
JET A max -36°C max +54°C

CENTER TANK 5437kg

X-FEED MOT 1 [DC] MOT 2 [DC]

DEFUEL XFR VALVE

A320 A321

CTR XFR VALVE [DC1] [DC2]

WING PUMPS

WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

A321

TOTAL CAPACITY (den 0.785kg/l)
18605kg
18879kg (NOM)

VENT TANK ~50kg

CAUTION, do not use GND AIRCOND air with air from packs simultaneously

PACK 1 FLOW CONTROL VALVE [DC ESS SHED]
PACK 2 FLOW CONTROL VALVE [DC]

PACK 1 AIR COND SYS 1 CTL [DC]

PACK 2 AIR COND SYS 2 CTL [DC]

HOT AIR PRESS REG VLV [DC]

EMER FAN AIR [DC]

PACK 2 FLOW CONTROL VALVE [DC]

PACK 1 AIR COND SYS 1 CTL [DC]

PACK 2 AIR COND SYS 2 CTL [DC]

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AIRCOND

PACK CTL
From fail to eng, not recommended
Both fail to ECAM signal lost
Both fail to 5-30°C in A
for active use
ENGINE CTL
From fail to 24°C for pack
Both fail to 20°C pack 1
10°C pack 2

CABIN AIR (95% recirculate)

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PRESSURIZATION

2 safety valves (press 8.5psi or ~25psi)
- FAN AIR ON and JLP-S, out, via 50% opens
- PRESSURIZATION ~ 8500ft ~ 3500ft

APU (NOM JLP-S)
Depressurization in case of residual press on GND

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Depressurization in case of residual press on GND

FIRE PROTECTION & CARGO VENT

★ SMOKE DETECTORS
★ FIRE DETECTORS
★ FIREX BOTTLES

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ENGINE

A319: CFM56-5B42 237000RPM
A320: CFM56-5B42 270000RPM
A321: CFM56-5B42 270000RPM
N1 100% = 3000 rpm
N2 100% = 14400 rpm
TOGA EGT max 950°C / 1700°C
ENG cool-down time 2' 0" for N2
START (idle) 45-55°C/200' then 15'

RADIC ENG1/2 CH1 [DC ESS] ENG1/2 CH2 [DC]

IGNITION ENG1/2 A319 [DC] ENG1/2 A320 [DC]

ENG1/2 CH1 [DC ESS] ENG1/2 CH2 [DC]

ENG1/2 CH1 [DC ESS] ENG1/2 CH2 [DC]

ENG1/2 CH1 [DC ESS] ENG1/2 CH2 [DC]

ENG1/2 CH1 [DC ESS] ENG1/2 CH2 [DC]

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Airbus System Guide

**Marco Forlingieri, Tim Weilkiens, Hugo
Guillermo Chale-Gongora**



Airbus System Guide:

Aircraft Systems Classifications Allan Seabridge, Mohammad Radaei, 2022-04-25 Aircraft Systems Classifications Enables aerospace professionals to quickly and accurately reference key information about all types of aircraft systems Aircraft Systems Classifications A Handbook of Characteristics and Design Guidelines provides comprehensive information on aircraft systems delivered in a concise direct and standardized way allowing readers to easily find the information they need The book presents a full set of characteristics and requirements for all types of aircraft systems including avionic mission and supporting ground systems in a single volume Readers can delve further into specific topics by referencing the detailed glossary and bibliography To aid in reader comprehension each aircraft system is broken down according to various criteria such as Purpose description and safety Integration with other systems Key interfaces and design drivers Modeling and simulation Best practices and future trends Written for aerospace professionals researchers and advanced students with some existing knowledge of the aircraft industry this book allows readers to quickly reference information on every aspect of aircraft systems Civil Airliner Flight Guidance Technology for Four-Dimensional Trajectory-Based Operation Guangwen Li, Shaobo Zhai, Qiuling Jia, 2024-09-16 This book focuses on achieving precision guidance and timely arrival in flight The content comprehensively describes the civil aircraft flight guidance technology for four dimensional trajectory based operation The main content of this book is the summary of the author s team s research work on flight management systems and flight guidance technology over the past decade including flight plan analysis and transition path construction four dimensional trajectory planning and re planning high precision flight guidance commands calculation FMS landing system etc The theoretical methods described in the book have been verified by pre research and practical engineering projects which are of great theoretical significance and engineering application value This book is used as a reference for engineers engaged in flight control flight guidance and flight management research as well as Masters and Ph Ds in related disciplines

Digital Avionics Handbook Cary Spitzer, Uma Ferrell, Thomas Ferrell, 2017-11-22 A perennial bestseller the Digital Avionics Handbook offers a comprehensive view of avionics Complete with case studies of avionics architectures as well as examples of modern systems flying on current military and civil aircraft this Third Edition includes Ten brand new chapters covering new topics and emerging trends Significant restructuring to deliver a more coherent and cohesive story Updates to all existing chapters to reflect the latest software and technologies Featuring discussions of new data bus and display concepts involving retina scanning speech interaction and synthetic vision the Digital Avionics Handbook Third Edition provides practicing and aspiring electrical aerospace avionics and control systems engineers with a pragmatic look at the present state of the art of avionics Digital Avionics Handbook, Third Edition Cary Spitzer, Uma Ferrell, Thomas Ferrell, 2014-09-03 A perennial bestseller the Digital Avionics Handbook offers a comprehensive view of avionics Complete with case studies of avionics architectures as well as examples of modern systems flying on current military and civil aircraft

this Third Edition includes Ten brand new chapters covering new topics and emerging trends Significant restructuring to deliver a more coherent and cohesive story Updates to all existing chapters to reflect the latest software and technologies Featuring discussions of new data bus and display concepts involving retina scanning speech interaction and synthetic vision the Digital Avionics Handbook Third Edition provides practicing and aspiring electrical aerospace avionics and control systems engineers with a pragmatic look at the present state of the art of avionics *Handbook of Systems Engineering and Analysis of Electro-Optical and Infrared Systems* William Wolfgang Arrasmith, 2025-06-30 There has been a lot of innovation in systems engineering and some fundamental advances in the fields of optics imaging lasers and photonics that warrant attention This volume focuses on concepts principles and methods of systems engineering related topics from government industrial and academic settings such as development and operations DevOps agile methods and the concept of the digital twin Handbook of Systems Engineering and Analysis of Electro Optical and Infrared Systems Concepts Principles and Methods offers more information on decision and risk analysis and statistical methods in systems engineering such as design of experiments DOX methods hypothesis testing analysis of variance blocking 2k factorial analysis and regression analysis It includes new material on systems architecture to properly guide the evolving system design and bridge the gap between the requirements generation and design efforts The integration of recent high speed atmospheric turbulence research results in the optical technical examples and case studies to illustrate the new developments is also included A presentation of new optical technical materials on adaptive optics AO atmospheric turbulence compensation ATC and laser systems along with more are also key updates that are emphasized in the second edition 2 volume set Because this volume blends modern day systems engineering methods with detailed optical systems analysis and applies these methodologies to EO IR systems this new edition is an excellent text for professionals in STEM disciplines who work with optical or infrared systems It s also a great practical reference text for practicing engineers and a solid educational text for graduate level systems engineering engineering science and technology students

Airborne Comfort: A Comprehensive Guide to HVAC Systems in Airplanes Charles Nehme, Welcome aboard Airborne Comfort A Comprehensive Guide to HVAC Systems in Airplanes As you settle into your seat we invite you to embark on an enlightening journey through the intricate world of aircraft HVAC Heating Ventilation and Air Conditioning systems Whether you are an aviation enthusiast a curious traveler or a professional in the aviation industry this book aims to unravel the complexities of the invisible yet indispensable systems that ensure your comfort at 35 000 feet Air travel has become an integral part of our lives connecting people cultures and ideas across the globe Behind the scenes of every successful flight lies a multitude of engineering marvels and among them the HVAC systems play a vital role As passengers we often take for granted the controlled temperature optimal humidity levels and clean air within the cabin Yet behind the scenes a complex network of technologies and processes are diligently at work creating an environment conducive to our well being and ensuring the smooth functioning of the aircraft This comprehensive guide is

designed to take you on a captivating exploration of aircraft HVAC systems from their historical roots to the cutting edge innovations transforming the industry today We delve into the fundamental principles of thermodynamics fluid mechanics and human physiology that form the bedrock of these systems As we navigate through the book s chapters you will gain a profound understanding of how these intricate systems create a comfortable and safe environment inside the aircraft Our journey begins with a historical perspective tracing the evolution of cabin climate control from the early days of aviation to the present We then transition into the core components of HVAC systems discussing air conditioning pressurization temperature control and humidity management Through detailed explanations and illustrations we shed light on the inner workings of these subsystems exploring the challenges faced by engineers in maintaining optimal conditions at high altitudes As we progress we unravel the fascinating world of air filtration and purification understanding how the HVAC systems ensure the supply of clean and fresh air throughout the cabin We explore the crucial role of filters disinfection techniques and air recirculation mechanisms all aimed at safeguarding the health and well being of passengers and crew Additionally we dive into the realm of system control and automation shedding light on the advanced algorithms and sensors that monitor and regulate the cabin environment We discuss the integration of emerging technologies such as machine learning and IoT Internet of Things which promise to revolutionize the efficiency and effectiveness of HVAC systems in the future We would be remiss not to address the environmental impact of aviation and the ongoing efforts to make aircraft HVAC systems more sustainable Throughout this book we explore the pursuit of energy efficient solutions the adoption of alternative refrigerants and the importance of minimizing the ecological footprint of air travel *Airborne Comfort A Comprehensive Guide to HVAC Systems in Airplanes* is a testament to the tireless efforts of engineers scientists and aviation professionals who dedicate their expertise to creating a comfortable and healthy flying experience for all It is our hope that this book will serve as an invaluable resource enlightening readers and fostering a deeper appreciation for the intricacies of aircraft HVAC systems So sit back fasten your seatbelt and prepare for an exhilarating exploration into the world of airborne comfort Bon voyage

Airbus A350 - Systems Guide for Pilots Faraz Sheikh,2022-02-22 This is a systems guide for Pilots training or transitioning onto the Airbus A350 series aircraft It covers various aircraft systems with detailed images for you and information for training The 24 chapters included include 1 General 2 Air systems 3 Automatic flight systems 4 Flight management system 5 Communications 6 Electrical system 7 Fire Smoke protections 8 Flight Controls and Slats Flaps 9 Fuel system 10 Hydraulic system 11 Ice rain protection 12 Controls display systems 13 Recording systems 14 Landing Gear 15 Lights 16 Navigation 17 Oxygen system 18 Avionics network IMA 19 Onboard maintenance system 20 Information systems 21 Air traffic control communication systems 22 APU 23 Doors 24 Engines The book is for training purposes ONLY NOT FOR OPERATIONAL USE *Human-centered Aircraft Automation: A Concept and Guidelines* Charles E. Billings,1991

Model-Based Product Line Engineering (MBPLE) Marco Forlingieri,Tim Weilkien,Hugo Guillermo

Chalé-Gongora,2025-03-11 Clear and concise guide to MBPLE with industrial case studies Written in a to the point style

Model Based Product Line Engineering MBPLE is the only theoretical and practical foundational book on MBPLE that brings together the topics of model based systems engineering MBSE and feature based product line engineering PLE It examines how PLE can benefit from a model based and model centric approach and in turn how MBSE combined with holistic PLE can boost model reuse and improve the MBSE business case The book combines both management and engineering aspects to deliver comprehensive coverage of the subject The book covers real life challenges and implementations of MBPLE discussing adoption obstacles faced by engineering organizations and how to overcome them to ensure a successful MBPLE deployment Dozens of SysML v2 views SysML v1 diagrams SysML v2 code snippets and illustrations are included throughout to elucidate key concepts Additional supplementary learning materials are available on a companion website Written by a team of expert authors and contributors with significant experience in the field of applied MBPLE

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Systems Engineering for Commercial Aircraft Scott Jackson,2025-06-30

Systems engineered aircraft are designed to transport passengers safely ensuring all components work together seamlessly This book explores the concept of aircraft as a complex system including humans with safety as a crucial aspect By prioritizing safety and quality fewer fatalities can be achieved leading to efficient reliable and safe aircraft for passengers and crew

Systems Engineering for Commercial Aircraft A Domain Specific Adaptation Third Edition focuses on Deming's definition of quality its methods and the benefits it brings which were not covered in the previous edition The Risk chapter will also be expanded to include discussions on Risk Denial its consequences and strategies to avoid it A detailed examination of resilience will be provided highlighting how it enables an aircraft to prevent endure and recover from disruptions such as bird strikes The book will explore the proactive and reactive aspects of resilience how a system like an aircraft can be defined by its functions and how an aircraft's design should prioritize the needs of various stakeholders including passengers regulatory agencies and other relevant parties The primary audience for this book consists of major aircraft companies engaged in advanced design aeronautical engineers and systems engineers

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