

Literaturverzeichnis

Flugzeugsysteme allgemein

Moir 2001

MOIR, Ian; SEABRIDGE, Allan: *Aircraft Systems : Mechanical, Electrical, and Avionics Subsystems Integration*. Washington D.C. : AIAA, 2001 (AIAA Education Series)

CUNDY, Dale R.; BROWN, Rick S.: *Introduction to Avionics*. Upper Saddle River, NJ : Prentice Hall, 1997

FEDERAL AVIATION ADMINISTRATION, DEPARTMENT OF TRANSPORTATION: *Airframe and Powerplant Mechanics Airframe Handbook*. FAA, 1976 (AC 65-15A). – 609 pages, URL: <http://www.faa.gov>

KROES, Michael J.; WATKINS, William A.; DELP, Frank: *Aircraft Maintenance and Repair*. Singapore : McGraw-Hill, 1993

LOMBARDO, David: *Advanced Aircraft Systems*. New York : TAB Books, McGraw-Hill, 1993

MIDDLETON, Donald H. (Ed.): *Avionic Systems*. Harlow, GB : Longmann, 1989

ROSKAM, Jan: *Airplane Design*. Vol. 4 : *Layout Design of Landing Gear and Systems*. Ottawa, KA : Roskam Aviation and Engineering Corporation, 1989. – Vertrieb durch DARcorporation, URL: <http://www.darcorp.com>

WILD, Thomas W.: *Transport Category Aircraft Systems*. Casper, WY : IAP, 1990

WILKINSON, Ray: *Aircraft Structures and Systems*. Harlow, GB : Addison Wesley Longman, 1996

Definitionen und Gliederungen

- AGARD 1980** AGARD: *Multilingual Aeronautical Dictionary*. Neuilly sur Seine, F : Advisory Group for Aerospace Research and Development, 1980. – Online verfügbar von NATO's Research & Technology Organisation, URL: <http://www.rta.nato.int>
- AIR 171** SAE: Glossary of Technical and Physiological Terms Related to Aerospace Oxygen Systems. Warrendale, PA : Society of Automotive Engineers, 2000 (AIR171D). – Online verfügbar von SAE, URL: <http://www.sae.org>
- SAE: Aerospace Landing Gear Systems Terminology. Warrendale, PA : Society of Automotive Engineers, 2012 (AIR 1489C)
- SAE: Nomenclature, Aircraft Air Conditioning Equipment. Warrendale, PA : Society of Automotive Engineers, 2001 (ARP 147E). – Online verfügbar von SAE, URL: <http://www.sae.org>
- SAE: Terminology and Definitions for Aerospace Fluid Power, Actuation, and Control Technologies. Warrendale, PA : Society of Automotive Engineers, 2001 (ARP 4386C)
- ATA 100** AIR TRANSPORT ASSOCIATION OF AMERICA: Manufacturers' Technical Data (ATA Spec 100). Washington : ATA, 1999. – Online verfügbar von ATA, URL: <http://www.airlines.org>
- ATA 2200** AIR TRANSPORT ASSOCIATION OF AMERICA: Information Standards for Aviation Maintenance (ATA iSpec 2200). Washington : ATA, 2001
- ICAO Annex 1** ICAO: Convention on International Civil Aviation, Annex 1: Personnel Licensing. 9th Ed. Montreal : International Civil Aviation Organization, 2001. – Bezug durch ICAO, URL: <http://www.icao.int>
- ICAO Annex 2** ICAO: Convention on International Civil Aviation, Annex 1: Rules of the Air. 9th Ed. Montreal : International Civil Aviation Organization, 1990
- SAE 1998** TOMSIC, Joal L. (Ed.): *SAE Dictionary of Aerospace Engineering*. Warrendale, PA : Society of Automotive Engineers, 1998

WATOG AIR TRANSPORT ASSOCIATION OF AMERICA: Airline Industry Standard, World Airlines Technical Operations Glossary (WATOG). Washington: ATA, 1992. – Bezug durch ATA, URL: <http://www.airlines.org>

Zulassung

AC 25-17 FEDERAL AVIATION ADMINISTRATION, DEPARTMENT OF TRANSPORTATION: Transport Airplane Cabin Interiors Crashworthiness Handbook, 1991 (AC 25-17). – Online verfügbar von URL: <http://www.faa.gov>

AC 25-22 FEDERAL AVIATION ADMINISTRATION, DEPARTMENT OF TRANSPORTATION: Certification of Transport Airplane Mechanical Systems, 2000 (AC 25-22). – Online verfügbar von URL: <http://www.faa.gov>

ACJ-25 EUROPEAN AVIATION SAFETY AGENCY: Joint Aviation Requirements for Large Aeroplanes (CS-25), Acceptable Means of Compliance and Interpretations (ACJ). – Online verfügbar von EASA, URL: <http://www.easa.eu.int>

AMJ-25 EUROPEAN AVIATION SAFETY AGENCY: Joint Aviation Requirements for Large Aeroplanes (CS-25), Advisory Material Joint (AMJ). – Online verfügbar von EASA, URL: <http://www.easa.eu.int>

CS-1 EUROPEAN AVIATION SAFETY AGENCY: CS-Definitions (CS-1). – Online verfügbar von EASA, URL: <http://www.easa.eu.int>

CS-25 EUROPEAN AVIATION SAFETY AGENCY: Certification Specifications for Large Aeroplanes (CS-25), Certification Specification. – Online verfügbar von EASA, URL: <http://www.easa.eu.int>

FAR Part 25 FEDERAL AVIATION ADMINISTRATION, DEPARTMENT OF TRANSPORTATION: Part 25 – Airworthiness Standards: Transport Category Airplanes. – Online verfügbar von URL: <http://www.faa.gov>

FEDERAL AVIATION ADMINISTRATION, DEPARTMENT OF TRANSPORTATION: Advisory Circular Checklist. FAA, 2000 (AC 00-2.13)

Sicherheit und Zuverlässigkeit

- Davidson 1988** DAVIDSON, John: *The Reliability of Mechanical Systems*. London : Mechanical Engineering Publications, 1988
- MIL-HDBK-217** ROME AIR DEVELOPMENT CENTER: Reliability Prediction for Electronic Systems. 1991 (MIL-HDBK-217F). – Verfügbar über National Technical Information Service, URL: <http://www.ntis.gov>
- MIL-STD-1629** DEPARTMENT OF DEFENSE: Procedures for Performing a Failure Mode, Effects and Criticality Analysis. 1980 (MIL-STD-1629A). – Verfügbar über National Technical Information Service, URL: <http://www.ntis.gov>
- O'Connor 1991** O'CONNOR, Patrick D.T.: *Practical Reliability Engineering*. Chichester : John Wiley, 1991
- Rome 1985** ROME AIR DEVELOPMENT CENTER; HUGHES AIRCRAFT COMPANY: Nonelectronic Reliability Notebook, Revision B. 1985 (ADA 163900). – Verfügbar über National Technical Information Service, URL: <http://www.ntis.gov>
- RTCA/DO-160** RADIO TECHNICAL COMMISSION FOR AERONAUTICS: Environmental Conditions and Test Procedures for Airborne Equipment. Washington : RTCA, 2010 (RTCA/DO-160G). – RTCA, Inc., 1140 Connecticut Avenue, N. W., Suite 1020, Washington, D. C. 20036 URL: <http://www.rtca.org>. Verfügbar auch über National Technical Information Service, URL: <http://www.ntis.gov>
- RTCA/DO-178** RADIO TECHNICAL COMMISSION FOR AERONAUTICS: Software Considerations in Airborne Systems and Equipment Certification. Washington : RTCA, 2012 (RTCA/DO-178C)
- FEDERAL AVIATION ADMINISTRATION, DEPARTMENT OF TRANSPORTATION: System Design and Analysis. FAA, 1988 (AC 25.1309-1A). – Online verfügbar von URL: <http://www.faa.gov>

Masse

- Boeing 1968** BOEING, Weight Research Group: Weight Prediction Manual – Class I. Renton, WA : The Boeing Company, Commercial Airplane Division, 1968 (D6-23201 TN)

- MIL-STD-1374** DEPARTMENT OF DEFENSE: Weight and Balance Data Reporting Forms for Aircraft. 1997 (MIL-STD-1374A). – Online verfügbar von URL: <http://www.sawe.org>
- Raymer 2012** RAYMER, Daniel P.: *Aircraft Design: A Conceptual Approach*. Washington D.C. : AIAA, 2012 (AIAA Education Series)
- Roskam 1989** ROSKAM, Jan: *Airplane Design. Vol. 5 : Component Weight Estimation*. Ottawa, KA : Roskam Aviation and Engineering Corporation, 1989. – Bezug über DARcorporation, URL: <http://www.darcorp.com>
- Torenbeek 1988** TORENBEEK, Egbert: *Synthesis of Subsonic Airplane Design*. Delft : Delft University Press, 1988
- SAWE 2013** <http://www.sawe.org> (2013-10-16)

Leistung

- ARP 1280** SAE: Application Guide for Hydraulic Power Transfer Units. Warrendale, PA : Society of Automotive Engineers, 2009 (ARP 1280B) . – Verfügbar über SAE, URL: <http://www.sae.org>
- SAE: Aerospace Auxiliary Power Sources. Warrendale, PA : Society of Automotive Engineers, 2010 (AIR 744C)
- SAE: Power Sources for Fluidic Controls. Warrendale, PA : Society of Automotive Engineers, 2004 (AIR 1244B)

Kostenberechnung und Vergleichsstudien

Shustrov 1999 SHUSTROV, Yury M.: "Starting mass" – a Complex Criterion of Quality for Aircraft On-board Systems. In: *Aircraft Design*, 1 (1998), p 193 - 203. – See: <http://www.elsevier.com>

Scholz 1998 SCHOLZ, Dieter: DOCsys - A Method to Evaluate Aircraft Systems. In: SCHMITT, D. (Ed.): *Bewertung von Flugzeugen (Workshop: DGLR Fachausschuß S2 - Luftfahrtsysteme, München, 26./27. October 1998)*. Bonn : Deutsche Gesellschaft für Luft- und Raumfahrt, 1998. – Online verfügbar über URL: <http://www.ProfScholz.de>

Klimaanlagen

AIR 1168/3 SAE: Aerothermodynamic Systems Engineering and Design. Warrendale, PA : Society of Automotive Engineers, 1989 (AIR 1168/3). – Verfügbar über SAE, URL: <http://www.sae.org>

SAE: Aerospace Pressurization System Design. Warrendale, PA : Society of Automotive Engineers, 2011 (AIR 1168/7A)

SAE: Aircraft Fuel Weight Penalty Due to Air Conditioning. Warrendale, PA : Society of Automotive Engineers, 2011 (AIR 1168/8A)

AIR 1609 SAE: Aircraft Humidification. Warrendale, PA : Society of Automotive Engineers, 2005 (AIR 1609A)

ARP 85 SAE: Air Conditioning Systems for Subsonic Airplanes. Warrendale, PA : Society of Automotive Engineers, 2012 (ARP 85F)

ARP 1270 SAE: Aircraft Pressurization Control Criteria. Warrendale, PA : Society of Automotive Engineers, 2010 (ARP 1270B)

DEPARTMENT OF DEFENSE: Environmental Control System, Aircraft, General Requirements for. 1986 (MIL-E-18927E). – Verfügbar über National Technical Information Service, URL: <http://www.ntis.gov>

Bordstromversorgung

EISMIN, Thomas K.: *Aircraft Electricity & Electronics*. New York : Macmillan, McGraw-Hill, 1994

PALLET, E.H.J.: *Aircraft Electrical Systems*. Harlow, GB : Longman, 1998

Ausrüstung

AC 25.803 FEDERAL AVIATION ADMINISTRATION, DEPARTMENT OF TRANSPORTATION: Emergency Evacuation Demonstration, 1989 (AC 25.803). – Online verfügbar von URL: <http://www.faa.gov>

Granzeier 2001 GRANZEIER, Werner: Flugzeugkabine Boeing B717-200. In: Scholz, Dieter (Ed.): *Flugzeugkabine/Kabinensysteme – Die naechsten Schritte (Workshop DGLR S2.1/T8, Hamburg, 2001)*. Bonn : Deutsche Gesellschaft fuer Luft- und Raumfahrt, 2001, 79-87. – Online verfügbar von URL: <http://12.dglr.de>

SAE: Performance Standard for Seats in Civil Rotorcraft, Transport Aircraft, and General Aviation Aircraft. Warrendale, PA : Society of Automotive Engineers, 1997 (AS 8049A) . – Verfügbar von SAE, URL: <http://www.sae.org>

SAE: Crew Rest Facilities. Warrendale, PA : Society of Automotive Engineers, 1992 (ARP 4101/3)

SAE: Lavatory Installation. Warrendale, PA : Society of Automotive Engineers, 2013 (ARP 1315E)

SAE: Galley Installations. Warrendale, PA : Society of Automotive Engineers, 2013 (ARP 695E)

SAE: Passenger Evacuation Devices - Civil Air Transport. Warrendale, PA : Society of Automotive Engineers, 2004 (ARP 495D)

Feuerschutzanlagen

Hillman 2001 HILLMAN, Thomas C.; HILL, Steven W.; STURLA, Martin J.: *Aircraft Fire Detection and Suppression*. Kidde plc, 2001. – URL: <http://www.walterkidde.com> (2002-02-28)

Flugsteuerung

AMM A320 AIRBUS INDUSTRIE: *Aircraft Maintenance Manual*, A320, 2013. – Firmenschrift

URL: <http://www.datwiki.net> (2013-10-16)

KROSS, M.; WATKINS, W.; DELP, F.: *Aircraft Maintenance & Repair*. New York : McGraw-Hill, 1993

KÜHR, W.: *Der Privatflugzeugführer*, Band 1. Bergisch-Gladbach : Schiffmann-Gruppe, 2004

LUFTFAHRT-BUNDESAMT: *Grundlagen der Luftfahrzeugtechnik in Theorie und Praxis*. Bd. II: Flugwerk. Köln : TÜV Rheinland, 1992

MBB 1985 MBB: *A310 General Familiarization*, 1985

Moir 2008 MOIR, I.; SEABRIDGE, A.: *Aircraft Systems*. West Sussex : Wiley, 2008

RAYMOND, E. T.; CHENOWETH, C.C.: *Aircraft Flight Control Actuation System Design*. Warrendale, PA : Society of Automotive Engineers, 1993

SCHMITT, V.R.; MORRIS, J.W.; JENNY G.D.: *Fly-by-Wire : A Historical and Design Perspective*. Warrendale, PA : Society of Automotive Engineers, 1998

SCHOLZ, Dieter: Development of a CAE-Tool for the Design of Flight Control and Hydraulic Systems. In: INSTITUTION OF MECHANICAL ENGINEERS: *Avionic Systems, Design and Software*. London : Mechanical Engineering Publications, 1996, 1 - 22. – Introduction to the mechanical design aspects of Fly-by-Wire aircraft

Willims 1963

WILLIAMS, J.; BUTLER, S. F.-J.; WOOD, M. N.: *The Aerodynamics of Jet Flaps*. London : Ministry of Aviation, 1963

Hydraulikversorgung

FEDERAL AVIATION ADMINISTRATION, DEPARTMENT OF TRANSPORTATION: Hydraulic System Certification Tests And Analysis. FAA, 2013 (AC 25.1435-1). – Online verfügbar von URL: <http://www.faa.gov>

GREEN, William L.: *Aircraft Hydraulic Systems : An Introduction to the Analysis of Systems and Components*. Chichester, GB : John Wiley, 1985

GULLON, M.: *Hydraulic Servo Systems : Analysis and Design*. London : Butterworth, 1968. – Translation of the French edition: *Etude et Détermination des Systèmes Hydrauliques*. Paris : Dunod, 1961

SAE: Aerospace - Design and Installation of Commercial Transport Aircraft Hydraulic Systems. Warrendale, PA : Society of Automotive Engineers, 1994 (ARP 4752). – Verfügbar von SAE, URL: <http://www.sae.org>

SAE: Hydraulic Systems, Aircraft, Design and Installation, Requirements for. Warrendale, PA : Society of Automotive Engineers, 1998 (AS 5440). – Was: MIL-H-5440.

SCHOLZ, Dieter: Computer Aided Engineering for the Design of Flight Control and Hydraulic Systems. In: SOCIETY OF AUTOMOTIVE ENGINEERS: *SAE 1996 Transactions, Journal of Aerospace*. Sec. 1, Vol. 105 (1997), 203 - 212. – SAE-Paper: 961327: The design of central hydraulic aircraft systems

Eis- und Regenschutz

AIR 1168/4

SAE: Ice, Rain, Fog, and Frost Protection. Warrendale, PA : Society of Automotive Engineers, 1990 (AIR 1168/4). – Verfügbar von SAE, URL: <http://www.sae.org>

FAA 1993

FEDERAL AVIATION ADMINISTRATION, DEPARTMENT OF TRANSPORTATION: Aircraft Icing Handbook. FAA, 1993 (FAA Tech Report DOT/FAA/CT-88/8-2). – Überarbeitete Abschnitte online verfügbar von URL: <http://www.fire.tc.faa.gov>

FEDERAL AVIATION ADMINISTRATION, DEPARTMENT OF TRANSPORTATION: Aircraft Ice Protection. FAA, 1971 (AC 20-73). – Online verfügbar von URL: <http://www.faa.gov>

FEDERAL AVIATION ADMINISTRATION, DEPARTMENT OF TRANSPORTATION: Certification of Transport Category Airplanes for Flight in Icing Conditions. FAA, 1999 (AC 25.1419-1)

FEDERAL AVIATION ADMINISTRATION, DEPARTMENT OF TRANSPORTATION: Effect of Icing on Aircraft Control and Airplane Deice and Anti-Ice Systems. FAA, 1996 (AC 91-51A)

Fahrwerk

Goodyear 2004

GOODYEAR: *Aircraft Tire Care and Maintenance*. Goodyear, 2004. – URL:

<http://www.goodyearaviation.com/resources/pdf/aircraftmanual.pdf>

CONVWAY, H. G.: *Landing Gear Design*. London : Chapman, 1958

CURREY, Norman S.: *Aircraft Landing Gear Design : Principles and Practices*. Washington D.C. : AIAA, 1988 (AIAA Education Series)

DEPARTMENT OF DEFENSE: Landing Gear Systems. 1984 (MIL-L-87139). – Verfügbar von National Technical Information Service, URL: <http://www.ntis.gov>

PAZMANY, Ladislao: *Landing Gear Design for Light Aircraft*. San Diego, CA : Pazmany Aircraft Corporation, Box 80051, 1986

SAE: Landing Gear System Development Plan. Warrendale, PA : Society of Automotive Engineers, 1997 (ARP 1598A) . – Verfügbar von SAE, URL: <http://www.sae.org>

Beleuchtung

SAE: *1994 SAE Aircraft Lighting Handbook*. Warrendale, PA : Society of Automotive Engineers, 1994. – Eine Sammlung von allen Aerospace Standards erarbeitet vom SAE A-20 Committee

Sauerstoffanlagen

SAE: Introduction to Oxygen Equipment for Aircraft. Warrendale, PA : Society of Automotive Engineers, 2001 (AIR 825/1). – Verfügbar von SAE, URL: <http://www.sae.org>

SAE: Oxygen Equipment for Aircraft. Warrendale, PA : Society of Automotive Engineers, 1986 (AIR 825B)

SAE: Chemical Oxygen Supplies. Warrendale, PA : Society of Automotive Engineers, 1991 (AIR 1133A)

Pneumatikversorgung

SAE: Engine Bleed Air Systems for Aircraft. Warrendale, PA : Society of Automotive Engineers, 1987 (ARP 1796). – Verfügbar von SAE, URL: <http://www.sae.org>

SAE: High Pressure Pneumatic Compressors Users Guide for Aerospace Applications. Warrendale, PA : Society of Automotive Engineers, 1996 (AIR 4994)

DEPARTMENT OF DEFENSE: Bleed Air Systems, General Specification for. 1966 (MIL-B-81365). – Verfügbar von National Technical Information Service, URL: <http://www.ntis.gov>

Hilfstriebwerke

SAE: Commercial Aircraft Auxiliary Power Unit Installations. Warrendale, PA : Society of Automotive Engineers, 1991 (AIR 4204). – Verfügbar von SAE, URL: <http://www.sae.org>

Danksagung

Alle Bilder zum Airbus A321 und anderen Airbus Flugzeugen wurden bereits im Jahr 2002 mit freundlicher Genehmigung von Airbus zur Verfügung gestellt. Die Bilder stammen aus Unterlagen zum Aircraft Maintenance Training. *Unter keinen Umständen darf diese Information genutzt werden im tatsächlichen Flug- oder Wartungsbetrieb. Die Information gibt lediglich einen ersten Eindruck und entspricht nicht unbedingt dem aktuellen Stand der Technik.*