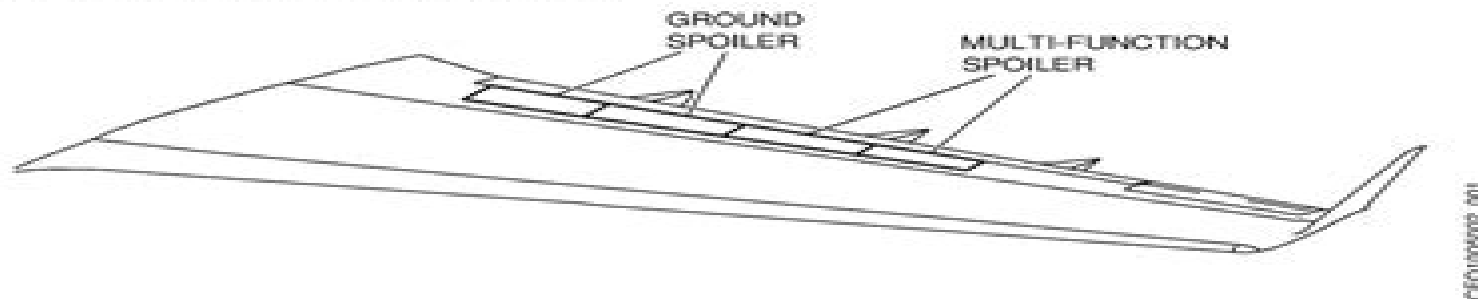


SECONDARY FLIGHT CONTROLS (Cont)

SPOILER SYSTEM

On the upper surface of each wing there are four spoiler panels. The two inboard panels are the ground spoilers, and the two outboard panels are the multifunction spoilers.



The system is computer controlled and hydraulically operated, two ground spoilers provide ground lift dumping functions. The multifunction spoilers provide roll assist, proportional lift dumping and ground lift dumping functions.

The ground spoilers have only two positions: fully retracted during flight or fully deployed after landing. The inboard and outboard ground spoilers, when tied together with the multifunction spoilers, comprise the ground spoilers system.

Bombardier Flight Manual

Utku Taşova

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.

Bombardier Flight Manual:

Flying the Classic Learjet Peter D. Condon, 2007-09 Flight Manual, B-24D Airplane Consolidated Aircraft (Firm). Flight and Service Department, 1942 Code of Federal Regulations United States. Internal Revenue Service, 2008 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of April 1 with ancillaries Code of Federal Regulations , 1996 Code of Federal Regulations, Title 14, Aeronautics and Space , 2011-04-27 Federal Register , 2013-07 The Code of Federal Regulations of the United States of America , 1996 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government , Aircraft Accident Report United States. National Transportation Safety Board, 2007 On August 27 2006 about 0606 35 eastern daylight time Comair flight 5191 a Bombardier CL 600 2B19 N431CA crashed during takeoff from Blue Grass Airport Lexington Kentucky The flight crew was instructed to take off from runway 22 but instead lined up the airplane on runway 26 and began the takeoff roll The airplane ran off the end of the runway and impacted the airport perimeter fence trees and terrain The captain flight attendant and 47 passengers were killed and the first officer received serious injuries The airplane was destroyed by impact forces and postcrash fire The flight was operating under the provisions of 14 Code of Federal Regulations Part 121 and was en route to Hartsfield Jackson Atlanta International Airport Atlanta Georgia Night visual meteorological conditions prevailed at the time of the accident The National Transportation Safety Board determines that the probable cause of this accident was the flight crewmembers failure to use available cues and aids to identify the airplane s location on the airport surface during taxi and their failure to cross check and verify that the airplane was on the correct runway before takeoff Contributing to the accident were the flight crew s nonpertinent conversation during taxi which resulted in a loss of positional awareness and the Federal Aviation Administration s FAA failure to require that all runway crossings be authorized only by specific air traffic control ATC clearances The safety issues discussed in this report focus on the need for 1 improved flight deck procedures 2 the implementation of cockpit moving map displays or cockpit runway alerting systems 3 improved airport surface marking standards and 4 ATC policy changes in the areas of taxi and takeoff clearances and task prioritization Safety recommendations concerning these issues are addressed to the FAA P x **Runway Overrun During Landing, Pinnacle Airlines Flight 4712 Bombardier/Canadair Regional Jet CL600-2B19, N8905F, Traverse City, Michigan, April 12, 2007** United States. National Transportation Safety Board, 2008 On April 12 2007 about 0043 eastern daylight time a Bombardier Canadair Regional Jet CRJ CL600 2B19 N8905F operated as Pinnacle Airlines flight 4712 ran off the departure end of runway 28 after landing at Cherry Capital Airport TVC Traverse City Michigan There were no injuries among the 49 passengers including 3 lap held infants and 3 crewmembers and the aircraft was substantially damaged Weather was reported as snowing The airplane was being operated under the provisions of 14 Code of Federal Regulations Part 121 and

had departed from Minneapolis St Paul International Wold Chamberlain Airport Minneapolis Minnesota about 2153 central daylight time Instrument meteorological conditions prevailed at the time of the accident flight which operated on an instrument flight rules flight plan The National Transportation Safety Board NTSB determines that the probable cause of this accident was the pilots decision to land at TVC without performing a landing distance assessment which was required by company policy because of runway contamination initially reported by TVC ground operations personnel and continuing reports of deteriorating weather and runway conditions during the approach This poor decision making likely reflected the effects of fatigue produced by a long demanding duty day and for the captain the duties associated with check airman functions Contributing to the accident were 1 the Federal Aviation Administration pilot flight and duty time regulations that permitted the pilots long demanding duty day and 2 the TVC operations supervisor s use of ambiguous and unspecific radio phraseology in providing runway braking information P ix

AIR CRASH INVESTIGATIONS: PILOT ERROR KILLS 50 PEOPLE in BUFFALO, the Crash of Colgan Air Flight 3407 Allistair Fitzgerald, 2010-04-16 On February 12 2009 about 2217 eastern standard time Colgan Air Flight 3407 a Bombardier DHC 8 400 on approach to Buffalo Niagara International Airport crashed into a residence in Clarence Center New York 5 nautical miles northeast of the airport The 2 pilots 2 flight attendants and 45 passengers aboard the airplane were killed one person on the ground was killed and the airplane was destroyed The National Transportation Safety Board determined that the probable cause of this accident was a pilot s error

The Learjet History Peter G. Hamel, Gary D. Park, 2022-06-10 Learjet 24 24 123 N3731 Credit Paul Bowen This book offers an unique comprehensive retrospective on the Learjet aircraft from the establishment by Bill Lear in the sixties to its slow demise in 2021 It accompanies readers on a unique journey through the configuration changes and advanced technological applications that have transformed business jets and their market in the last sixty years Important insights are given into numerous patents and innovations that have shaped the development of new technologies and aerodynamic improvements such as the winglet Furthermore this book presents many special missions carried out by the Learjet family such as VIP business and ambulance flights research and military projects and the use of Learjet in aerobatics as well as aerial photography and cinematography With a great number of original photographs and drawings interesting events stories and anecdotes this book provides today s aeronautical and systems engineers and test pilots with an invaluable source of information and inspiration Yet it also offers a compelling reading to students professionals and scientists in the aerospace field as well as to curious readers with a general interest in aeronautics Learjet 31A 31 131 N31LR Credit Paul Bowen

Aircraft Icing United States. Congress. House. Committee on Transportation and Infrastructure. Subcommittee on Aviation, 2010 *L.S.A., List of C.F.R. Sections Affected*, 2006-03-14 The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government **Flying Magazine**, 1947-03 **Electrical Systems Analysis at NASA Glenn Research**

Center: Status and Prospects ,2003 The Dictionary of Civil Aviation Utku Taşova,2023-11-02 In the realm of civil aviation the sky is hardly the limit It s the starting line Each day countless professionals and enthusiasts alike engage with this dynamic sector propelling humanity literally into new horizons However as we soar into these vast expanses the necessity for a robust understanding and a shared language becomes not just beneficial but vital It s here that The Dictionary of Civil Aviation finds its wings offering a solid ground of knowledge amidst the boundless skies of aviation exploration With a reservoir of 4 681 meticulously curated entries this dictionary stands as a testament to the colossal body of knowledge that civil aviation encompasses It s an endeavor to foster a shared understanding to bridge the knowledge gaps that might exist between a seasoned aviator and an aviation student between air traffic controllers and airport managers or between aviation policymakers and enthusiasts The Dictionary of Civil Aviation is more than just a glossary it s a journey A journey through the technicalities that ensure safety in the skies the regulations that govern our airways the acronyms that punctuate aviation communication and the innovations that continue to drive this sector forward Each term encapsulated in this dictionary is a node in the vast network that is civil aviation offering readers a structured pathway through the complex yet exhilarating world of flight The objective is clear to foster a culture of continuous learning and shared understanding within the civil aviation community By doing so we not only enhance the safety and efficiency of civil aviation but also honor the spirit of exploration and innovation that has always been its hallmark As you flip through the pages of The Dictionary of Civil Aviation you are not just encountering definitions you are engaging with the living evolving entity that is civil aviation Each term is a window into a broader narrative a narrative that you as a reader and as a member of the civil aviation community contribute to We invite you to embark on this educational expedition to delve into the nuances of civil aviation and to emerge with a richer understanding and appreciation of the sector that makes global connectivity possible Through this dictionary may your curiosity take flight and may your understanding of civil aviation soar to new heights Aircraft Accident Report ,197?

High-Lift Aerodynamics Jochen Wild,2022-02-03 This book presents a detailed look at high lift aerodynamics which deals with the aerodynamic behavior of lift augmentation means from various approaches After an introductory chapter the book discusses the physical limits of lift generation giving the lift generation potential It then explains what is needed for an aircraft to fly safely by analyzing the high lift related requirements for certifying an aircraft Aircraft needs are also analyzed to improve performance during takeoff approach and landing The book discusses in detail the applied means to increase the lift coefficient by either passive and active high lift systems It includes slotless and slotted high lift flaps active and passive vortex generating devices boundary and circulation control and powered lift Describing methods that are used to evaluate and design high lift systems in an aerodynamic sense the book briefly covers numerical as well as experimental simulation methods It also includes a chapter on the aerodynamic design of high lift systems FEATURES Provides an understanding of the physics of flight during takeoff and landing from aerodynamics to flight performance and from simulation to design

Discusses the physical limits of lift generation giving the lift generation potential Concentrates on the specifics of high lift aerodynamics to provide a first insight Analyzes aircraft needs to improve performance during takeoff approach and landing Focuses on civil transport aircraft applications but also includes the associated physics that apply to all aircraft This book is intended for graduate students in aerospace programs studying advanced aerodynamics and aircraft design It also serves as a professional reference for practicing aerospace and mechanical engineers who are working on aircraft design issues related to takeoff and landing Airworthiness Directives: Small Aircraft, Rotorcraft, Gliders, Balloons, and Airships, Bk. 4, 2000 Though 2003: Federal Aviation Regulations, Pt. 39 ,

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