

Boeing 787 Flight Crew Operations

This book provides a global perspective on the transformations in the world of work caused by the COVID-19 pandemic. The collection of essays will break down the general statistics and trends into glimpses of concrete experiences of workers during pandemic, of workplaces transformed or destroyed, of workers protesting against political measures, of professions particularly exposed to the coronavirus, and also of the changing nature of some professions.

"Over twenty years have passed since the First Edition was published in 1998; in that time changes both technological and human have occurred. Regarding human changes, we regret the death of one of the co-authors, Dr. Paul S. Cohen, just as preparations began in 2004 for the Second Edition. Hence this book has a new co-author, Dr. Stephen M. Cohen. The basic premises and criteria for inclusion in our book, however, have not altered. The GPS has rendered the art of map-reading nearly obsolete and many sites have added instructions to their facilities. Thus we have removed the need for us to include detailed directions. In addition the Internet now provides most of us with a ready and quick fountain of site information, sometimes accurate, and occasionally not. This information includes details about most of the sites we have chosen to include in the Second Edition, such as temporary exhibits, changeable daily schedules of lectures, and guided tours. In fact, many websites even provide driving directions. By request of our readers we have included information about how to go to sites by public transportation. In the Second Edition, we continue our focus on providing an ancillary background to each site, including some of the unusual, unique, or important aspects of its collection. As before, at least one of the authors has visited practically every site we discuss. We now include each site's own website and unusual directions such as latitude and longitude to correct for occasional errors in GPS directions or when a site may be reached by water as well as land. Because this book showcases science and technology for a worldwide readership, we now indicate metric units as well as English units for all measurements. This edition now lists treasures in all fifty states. We have split America's Scientific Treasures into three separate volumes, highlighting different geographical areas of the United States: the East Coast, the Midwest, and the West. In this way, you, the user, can more easily carry this book as you travel"--

Provides a significant update to the definitive book on aircraft system design This book is written for anyone who wants to understand how industry develops the customer requirement for aircraft into a fully integrated, tested, and qualified product that is safe to fly and fit for purpose. The new edition of Design and Development of Aircraft Systems fully expands its already comprehensive coverage to include both conventional and unmanned systems. It also updates all chapters to bring them in line with current design practice and technologies taught in courses at Cranfield, Bristol, and Loughborough universities in the UK. Design and Development of Aircraft Systems, 3rd Edition begins with an introduction to the subject. It then introduces readers to the aircraft systems (airframe, vehicle, avionic, mission, and ground systems). Following that comes a chapter on the design and development process. Other chapters look at design drivers, systems architectures, systems integration, verification of system requirements, practical considerations, and configuration control. The book finishes with sections that discuss the potential impact of complexity on flight safety, key characteristics of aircraft systems, and more. Provides a holistic view of aircraft system design, describing the interactions among subsystems such as fuel, navigation, flight control, and more Substantially updated coverage of systems engineering, design drivers, systems architectures, systems integration, modelling of systems, practical considerations, and systems examples Incorporates essential new material on the regulatory environment for both manned and unmanned systems Discussion of trends towards complex systems, automation, integration and the potential for an impact on flight safety Design and Development of Aircraft Systems, 3rd Edition is an excellent book for aerospace engineers, researchers, and graduate students involved in the field.

The story about a young girl that builds spaceships, flies to Mars, saves the Earth from a very large asteroid that she captures, puts in orbit above the Earth, builds a space elevator above her home in Texas, and also builds three space elevators on the moon and one on the planet Mars has lots of adventures while traveling around the solar system. She is befriended by a humpback whale and saves lots of whales.

Now available in a three-volume set, this updated and expanded edition of the bestselling Digital Signal Processing Handbook continues to provide the engineering community with authoritative coverage of the fundamental and specialized aspects of information-bearing signals in digital form. Encompassing essential background material, technical details, standards, and software, The Digital Signal Processing Handbook, Second Edition reflects cutting-edge information on signal processing algorithms and protocols related to speech, audio, multimedia, and video processing technology associated with standards ranging from WiMax to MP3 audio, low-power/high-performance DSPs, color image processing, and chips on video. The three-volume set draws on the experience of leading engineers, researchers, and scholars and includes 29 new chapters that address multimedia and Internet technologies, tomography, radar systems, architecture, standards, and future applications in speech, acoustics, video, radar, and telecommunications. Each volume in the set is also available individually ... Emphasizing theoretical concepts, Digital Signal Processing Fundamentals (Catalog no. 46063) provides comprehensive coverage of the basic foundations of DSP. Coverage includes: Signals and Systems, Signal Representation and Quantization, Fourier Transforms, Digital Filtering, Statistical Signal Processing, Adaptive Filtering, Inverse Problems and Signal Reconstruction, and Time–Frequency and Multirate Signal Processing. Wireless, Networking, Radar, Sensor Array Processing, and Nonlinear Signal Processing (Catalog no. 46047) thoroughly covers the foundations of signal processing related to wireless, radar, space–time coding, and mobile communications together with associated applications to networking, storage, and communications. Video, Speech, and Audio Signal Processing and Associated Standards, (Catalog no. 4608X) details the basic foundations of speech, audio, image, and video processing and associated applications to broadcast, storage, search and retrieval, and communications.

This title presents a flexible valuation and decision-making tool for financial planners, airlines, lease companies, bankers, insurance companies, and aircraft manufacturers.

The Birth of the Dreamliner captures the awe and achievement of this ambitious chapter of aviation history, and acts as a "biography" of the aircraft, following the evolution of the 787 concept through its path to completion. In full collaboration with Boeing, The Birth of the Dreamliner is full-access insight into how this intricate, complex machine has been engineered in response to a dream. The Dreamliner heralds a new era in air travel. The components of the Dreamliner are sourced from more than 130 sites around the world, and then transported by the largest cargo freighters ever built, specially customized 747s called Dreamlifters. Stunning photography illustrates the meticulous undertaking of transporting wings and fuselage sections to the Dreamliner's final assembly point at the Boeing facility in Everett, Washington, the world's biggest building. You will see how the sophisticated interiors take shape along the assembly line of parts and tools, with in-depth interviews from key personnel, creators, and technicians. This is a quintessential archive of an unprecedented aircraft program.

The essential roadmap for the new realities of selling when buyers are in charge Sales and service are being radically redefined by the biggest communications revolution in human history. Today buyers are in charge! There is no more 'selling'—there is only buying. When potential customers have near perfect information on the web, it means salespeople must transform from authority to consultant, product narratives must tell a story, and businesses must be agile enough to respond before opportunity is lost. The New

Rules of Sales and Service demystifies the new digital commercial landscape and shows you how to stay ahead of the pack. Companies large and small are revolutionizing the way business gets done, and this book takes you inside the new methods and strategies that are critical to success in the modern market. Real-world examples illustrate the new marketplace in action, and demonstrate the brilliant utility of taking a new look at your customer and your business. This new edition has been updated to reflect the current reality of this rapidly-evolving sphere, with fresh strategies, new tools, and new stories. Whether you're an independent contractor, a multi-national corporation, a start-up, or a nonprofit, this book is your essential guide to navigating the new digital marketplace. David Meerman Scott provides up-to-the-minute analysis of the current state of the digital commercial landscape, plus expert guidance toward the concepts, strategies, and tools that every business needs now. Among the topics covered in detail: Why the old rules of sales and service no longer work in an always-on world The new sales cycle and how informative Web content drives the buying process Providing agile, real-time sales and service 24/7 without letting it rule your life The importance of defining and understanding the buyer personas How agile customer service retains existing clients and expands new business Why content-rich websites motivate interest, establish authority, and drive sales How social media is transforming the role of salesperson into valued consultant Because buyers are better informed, and come armed with more choices and opportunities than ever before, everything about sales has changed. Salespeople must adapt because the digital economy has turned the old model on its head, and those who don't keep up will be left behind. The New Rules of Sales and Service is required reading for anyone wanting to stay ahead of the game and grow business now.

This book constitutes the refereed proceedings of the 11th International Conference on Engineering Psychology and Cognitive Ergonomics, EPCE 2014, held as part of the 16th International Conference on Human-Computer Interaction, HCII 2014, held in Heraklion, Greece, in June 2014, jointly with 13 other thematically similar conferences. The total of 1476 papers and 220 posters presented at the HCII 2014 conferences were carefully reviewed and selected from 4766 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The total of 54 contributions included in the EPCE proceedings were carefully reviewed and selected for inclusion in this volume and are organized in the following topical sections: mental workload and stress; visual perception; cognitive issues in interaction and user experience; cognitive psychology in aviation and space; transport and industrial applications.

Selecting the right aircraft for an airline operation is a vastly complex process, involving a multitude of skills and considerable knowledge of the business. Buying the Big Jets has been published since 2001 to provide expert guidance to all those involved in aircraft selection strategies. This third edition brings the picture fully up to date, representing the latest developments in aircraft products and best practice in airline fleet planning techniques. It features a new section that addresses the passenger experience and, for the first time, includes regional jet manufacturers who are now extending their product families into the 100-plus seating category. Overall, the third edition looks at a broader selection of analytical approaches than previously and considers how fleet planning for cost-leader airlines differs from that of network carriers. Buying the Big Jets is an industry-specific example of strategic planning and is therefore a vital text for students engaged in graduate or post-graduate studies either in aeronautics or business administration. The book is essential reading for airline planners with fleet planning responsibility, consultancy groups, analysts studying aircraft performance and economics, airline operational personnel, students of air transport, leasing companies, aircraft value appraisers, and all who manage commercial aircraft acquisition programmes and provide strategic advice to decision-makers. It is also a valuable tool for the banking community where insights into aircraft acquisition decisions are vital.

A full-text reporter of decisions rendered by federal and state courts throughout the United States on federal and state labor problems, with case table and topical index.

The Aircraft Engineering Principles and Practice Series provides students, apprentices and practicing aerospace professionals with the definitive resources to take forward their aircraft engineering maintenance studies and career. This book provides a detailed introduction to the principles of aircraft electrical and electronic systems. It delivers the essential principles and knowledge required by certifying mechanics, technicians and engineers engaged in engineering maintenance on commercial aircraft and in general aviation. It is well suited for anyone pursuing a career in aircraft maintenance engineering or a related aerospace engineering discipline, and in particular those studying for licensed aircraft maintenance engineer status. The book systematically covers the avionic content of EASA Part-66 modules 11 and 13 syllabus, and is ideal for anyone studying as part of an EASA and FAR-147 approved course in aerospace engineering. All the necessary mathematical, electrical and electronic principles are explained clearly and in-depth, meeting the requirements of EASA Part-66 modules, City and Guilds Aerospace Engineering modules, BTEC National Units, elements of BTEC Higher National Units, and a Foundation Degree in aircraft maintenance engineering or a related discipline. * The perfect blend of academic and practical information for aircraft engineering and maintenance * Addresses the avionic content of Modules 11 and 13 of the EASA Part-66 syllabus and BTEC National awards in aerospace engineering * Comprehensive and accessible, with self-test questions and multiple choice revision papers designed to prepare readers for EASA examination

This book is both a repertory guide to the Convention on International Civil Aviation (Chicago Convention) as well as a legal analysis of the provisions of the treaty. It traces action taken by the ICAO Assembly and the Council in the implementation of the Convention from the first ICAO Assembly in 1947 until 2012. Above all, the book offers a commentary on the functional and moral fabric of the Chicago Convention, which is not only a multilateral legal instrument that sets out basic principles of air navigation and air transport, but also serves as a moral compass that brings the people of the world together. The teleological nature of the Chicago Convention is reflected from the outset – from

its Preamble which sets the tone and philosophy of the Convention – that aviation builds friendship and understanding among all people, to its technical provisions that range from rules of the air to landing at airports and customs and immigration procedures. The book effectively demonstrates the Aristotelian principle – that rules make people good by forming habits in them. Standardization, or in other words, compliance, is the driver of the Convention that keeps aviation safe, regular, efficient and economical. To that end, this book traces and details the sustained relevance of the Chicago Convention and the efforts of ICAO and the international aviation community towards keeping air transport on track and ready for its future exponential growth, both in letter and in spirit. ?

Proceedings of the First International Air Tr. This book presents the proceedings of the First International Air Transport and Operations Symposium, ATOS 2010, held at the Delft University of Technology in The Netherlands. The focus of ATOS 2010 and these proceedings is on how air transport can evolve

Taking an integrated, systems approach to human performance issues on the flight deck of the modern airliner, this book describes the inter-relationships between the various application areas of human factors, recognising that the human contribution to the operation of an airliner does not fall into neat pigeonholes. The relationship between areas such as pilot selection, training, flight deck design and safety management is continually emphasised. It also affirms the upside of human factors in aviation and avoids placing undue emphasis on when the human component fails.

Avionics often serves as the tip of the spear for research into user-interface and systems usability in aviation. However, this emphasis on flashy, technology-driven design can come with a cost: the sacrifice of practical utility, which, in the high-stakes environment of military aviation, can lead directly to catastrophe. Mission Adaptive Display Technologies and Operational Decision Making in Aviation explores the use of adaptive and assistive technologies in aviation to establish clear guidelines for the design and implementation of such technologies to better serve the needs of both military and civilian pilots. Benefiting from the authors' combined experience of more than 40 years in the aviation industry and over 25,000 flight-hours, this volume targets a wide audience of engineers and business professionals. This premier reference source covers topics of interest to aviators and engineers, including aerodynamic systems design, operational decision theory, user interface design, avionics, and concepts and cases in flight operations, mission performance, and pilot training.

Written by experienced and innovative projects lawyer Arent van Wassenaeer, this book explains what the critical success factors are for construction projects to be completed on time, within everyone's budget, to the right quality, with all stakeholders satisfied and without disputes. In so doing, van Wassenaeer discusses how such projects could be structured, tendered for, executed and completed, and what legal and non-legal mechanisms are available to achieve success in construction projects. Using examples of real projects, A Practical Guide to Successful Construction Projects provides tools for those in leading and managerial positions within the construction industry to change – where necessary – their usual operational methods into methods which are aimed at achieving project success.

EBOOK: PRINCIPLES & PRACTICE M

Renamed to reflect the increased role of digital electronics in modern flight control systems, Cary Spitzer's industry-standard Digital Avionics Handbook, Second Edition is available in two comprehensive volumes designed to provide focused coverage for specialists working in different areas of avionics development. The first installment, Avionics: Elements, Software, and Functions covers the building blocks and enabling technologies behind modern avionics systems. It discusses data buses, displays, human factors, standards, and flight systems in detail and includes new chapters on the Time-Triggered Protocol (TTP), ARINC specification 653, communications, and vehicle health management systems.

The Global Airline Industry Second Edition provides a definitive introduction to the global air transportation system. It features detailed coverage of airline economics, strategy, management, scheduling, operations, and ticket distribution, as well as survey chapters on aviation safety and security, airports, air traffic control, environmental impacts, and the international regulatory environment in which the industry operates. It offers a global perspective, drawing on the editors' extensive experience with airline and air transport issues and featuring contributions from experts all around the world. The Global Airline Industry, Second Edition has been significantly revised and updated from the bestselling first edition and now also includes a chapter on Airline Revenue Management.

Prepares leaders for the 2020s—an accessible guide to the key technologies that will reshape business in the coming decade Most businesses identify six key digital technologies—artificial intelligence (AI), distributed ledgers and blockchain, the Internet of Things (IoT), autonomous machines, virtual and augmented reality, and 5G communication—as critical to their relevance and growth over the coming ten years. These new disruptive technologies present significant opportunity for businesses in every industry. The first businesses to understand automation and these transformative technologies will be the ones to reap the greatest rewards in the marketplace. The Innovation Ultimatum helps leaders understand the key technologies poised to reshape business in the next decade and prepare their organizations for technology-enabled change. Using straightforward, jargon-free language, this important resource provides a set of strategic questions every leader will need to ask and answer in order to prepare for the impending changes to the business landscape. Author Steve Brown shares his insights to help leaders take full advantage of the next wave of digital transformation and describes compelling examples of how businesses are already embracing new technologies to optimize operations, create new value, and serve customers in new ways. Written for anyone that wants to understand how automation and new technology will fundamentally restructure business, this book enables readers to: Understand the implications of technology-

driven change across industrial sectors Apply important insights to their own business Gain competitive advantage by implementing new technologies Prepare for the future of work and understand the skills needed to thrive in a post-automation economy Adopt critical digital technologies in any organization Providing invaluable cutting-edge content, The Innovation Ultimatum is a much-needed source of guidance and inspiration for business leaders, board members, C-suite executives, and senior managers who need to prepare their businesses for the future.

This textbook provides students and the broader aviation community with a complete, accessible guide to the subject of human factors in aviation. It covers the history of the field before breaking down the physical and psychological factors, organizational levels, technology, training, and other pivotal components of a pilot and crew's routine work in the field. The information is organized into easy-to-digest chapters with summaries and exercises based on key concepts covered, and it is supported by more than 100 full-color illustrations and photographs. All knowledge of human factors required in aviation university studies is conveyed in a concise and casual manner, through the use of helpful margin notes and anecdotes that appear throughout the text.

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.

Samuel Aigbe was one of ten survivors of the Kenya Airways flight KQ431 plane crash over the coast of Abidjan, Ivory Coast, on 30th January 2000, of which there were 169 fatalities. He holds a Bachelor of Science degree in Political Science and Public Administration from the University of Benin, Edo State, Nigeria. In the aftermath of the plane crash, he gained two postgraduate degrees: Master of Arts in Human Rights, Ethics and International Relations; and Master of Law in International Law with International Relations both from The University of Kent, Canterbury. Samuel Aigbe vividly brings to light the incidents prior, during and after the crash. He shares his life as a testament of the goodness of God that saw him through that gruesome moment in the harmattan (seasonal freezing hazy wind from the Sahara desert), in the dark Atlantic Ocean off the coast of Africa. He recounts how his faith saw him through that dreadful moment, before being fished out by two white French fishermen into their boat. For more information and ideas, please visit www.samuelaigbe.com

This book provides a systematic analysis, modeling and evaluation of the performance of advanced transport systems. It offers an innovative approach by presenting a multidimensional examination of the performance of advanced transport systems and transport modes, useful for both theoretical and practical purposes. Advanced transport systems for the twenty-first century are characterized by the superiority of one or several of their infrastructural, technical/technological, operational, economic, environmental, social and policy performances as compared to their conventional counterparts. The advanced transport systems considered include: Bus Rapid Transit (BRT) and Personal Rapid Transit (PRT) systems in urban area(s), electric and fuel cell passenger cars, high speed tilting trains, High Speed Rail (HSR), Trans Rapid Maglev (TRM), Evacuated Tube Transport system (ETT), advanced commercial subsonic and Supersonic Transport Aircraft (STA), conventionally- and Liquid Hydrogen (LH2)-fuelled commercial air transportation, advanced Air Traffic Control (ATC) technologies and procedures for increasing the airport runway capacity, Underground Freight Transport (UFT) systems in urban area(s), Long Intermodal Freight Train(s) (LIFTs), road mega trucks, large advanced container ships and freight/cargo aircraft and advanced freight/goods collection distribution networks. This book is intended for postgraduates, researchers, professionals and policy makers working in the transport industry.

The fourth edition of the Handbook of Human Factors and Ergonomics has been completely revised and updated. This includes all existing third edition chapters plus new chapters written to cover new areas. These include the following subjects: Managing low-back disorder risk in the workplace Online interactivity Neuroergonomics Office ergonomics Social networking HF&E in motor vehicle transportation User requirements Human factors and ergonomics in aviation Human factors in ambient intelligent environments As with the earlier editions, the main purpose of this handbook is to serve the needs of the human factors and ergonomics researchers, practitioners, and graduate students. Each chapter has a strong theory and scientific base, but is heavily focused on realworld applications. As such, a significant number of case studies, examples, figures, and tables are included to aid in the understanding and application of the material covered.

Two-volume collection of case studies on aspects of NACA-NASA research by noted engineers, airmen, historians, museum curators, journalists, and independent scholars. Explores various aspects of how NACA-NASA research took aeronautics from the subsonic to the hypersonic era.-publisher description.

Airline Operations and Management: A Management Textbook is a survey of the airline industry, mostly from a managerial perspective. It integrates and applies the fundamentals of several management disciplines, particularly economics, operations, marketing and finance, in developing the overview of the industry. The focus is on tactical, rather than strategic, management that is specialized or unique to the airline industry. The primary audiences for this textbook are both senior and graduate students of airline management, but it should also be useful to entry and junior level airline managers and professionals seeking to expand their knowledge of the industry beyond their own functional area.

As aircraft became more reliable and less prone to mechanical failure, the percentage of accidents related to human factors increased. Some aspect of human factors now accounts for over 80 percent of all accidents. Flying IMC can result in sensations that are misleading to the body's sensory system. A safe pilot needs to understand these sensations and effectively counteract them. Pilots who have a good understanding of human factors are better equipped to plan and execute a safe and uneventful flight. This book covers in full the EASA learning objectives for the Human performance subject for CB-IR and BIR. And as a digital book it will be updated as often as necessary, as well as improved based on the readers feedback.

This book constitutes late breaking papers from the 22nd International Conference on Human-Computer Interaction, HCII 2020, which was held in July 2020. The conference was planned to

take place in Copenhagen, Denmark, but had to change to a virtual conference mode due to the COVID-19 pandemic. From a total of 6326 submissions, a total of 1439 papers and 238 posters have been accepted for publication in the HCII 2020 proceedings before the conference took place. In addition, a total of 333 papers and 144 posters are included in the volumes of the proceedings published after the conference as "Late Breaking Work" (papers and posters). These contributions address the latest research and development efforts in the field and highlight the human aspects of design and use of computing systems.

This edited textbook is a fully updated and expanded version of the highly successful first edition of Human Factors in Aviation. Written for the widespread aviation community - students, engineers, scientists, pilots, managers, government personnel, etc., HFA offers a comprehensive overview of the topic, taking readers from the general to the specific, first covering broad issues, then the more specific topics of pilot performance, human factors in aircraft design, and vehicles and systems. The new editors offer essential breath of experience on aviation human factors from multiple perspectives (i.e. scientific research, regulation, funding agencies, technology, and implementation) as well as knowledge about the science. The contributors are experts in their fields. Topics carried over from the first edition are fully updated, several by new authors who are now at the fore of the field. New material - which represents 50% of the volume - focuses on the challenges facing aviation specialists today. One of the most significant developments in this decade has been NextGen, the Federal Aviation Administration's plan to modernize national airspace and to address the impact of air traffic growth by increasing airspace capacity and efficiency while simultaneously improving safety, environmental impacts and user access. NextGen issues are covered in full. Other new topics include: High Reliability Organizational Perspective, Situation Awareness & Workload in Aviation, Human Error Analysis, Human-System Risk Management, LOSA, NOSS and Unmanned Aircraft System. Comprehensive text with up-to-date synthesis of primary source material that does not need to be supplemented New edition thoroughly updated with 50% new material and full coverage of NexGen and other modern issues Instructor website with test bank and image collection makes this the only text offering ancillary support Liberal use of case examples exposes readers to real-world examples of dangers and solutions

The airline industry presents an enigma. High growth rates in recent decades have produced only marginal profitability. This book sets out to explain, in clear and simple terms, why this should be so. It provides a unique insight into the economics and marketing of international airlines. Flying Off Course has established itself over the years as the indispensable guide to the inner workings of this exciting industry. This enlarged fourth edition, largely re-written and completely updated, takes into account the sweeping changes which have affected airlines in recent years. It includes much new material on many key topics such as airline costs, 'open skies', air cargo economics, charters and new trends in airline pricing. It also contains two exciting new chapters on the economics of the low-cost no frills carriers and on the future prospects of the industry. The book provides a practical insight into key aspects of airline operations, planning and marketing within the conceptual framework of economics. It is given added force by the author's hands-on former experiences as a Chairman and CEO of Olympic Airways and as a non-executive Director of South African Airways while he is currently a non-executive Director of easyJet.

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.

Since its first flight on 15 December 2009, the Boeing 787 'Dreamliner' has been the most sophisticated airliner in the world. It uses many advanced new technologies to offer unprecedented levels of performance with minimal impact on the environment. Flying the Boeing 787 gives a pilot's eye view of what it is like to fly this remarkable machine. It takes the reader on a trip from Tokyo to Los Angeles as the flight crew see it, from pre-flight planning, through all the phases of the flight to shut-down at the parking stand many thousands of miles from the departure point. Lavishly illustrated with specially taken photographs of the B787's controls and instruments, this book will be of interest not just to commercial pilots, but to all aviation enthusiasts: it gives an insight into a world normally hidden for the flying public, at the technical and operational cutting edge of commercial flying. Gives a pilot's eye view of flying this remarkable machine - the Boeing 787 'Dreamliner'. Also an insight into a world normally hidden from the flying public, at the technical and operational cutting edge of commercial flying. Lavishly illustrated with 176 specially-taken colour photographs of the B787's controls and instruments.

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