

# **Airline Operations And Delay Management Insights From Airline Economics Networks And Strategic Schedule Planning**

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**Outside Insight** - Jorn Lyseggen 2017-10-12  
Is your business looking out? The world today is drowning in data. There is a treasure trove of valuable and underutilized insights that can be gleaned from information companies and people leave behind on the internet - our 'digital breadcrumbs' - from job postings, to online news, social media, online ad spend, patent applications and more. As a result, we're at the cusp of a major shift in the way businesses are managed and governed - moving from a focus solely on lagging, internal data, toward analyses that also encompass industry-wide, external data to paint a more complete picture of a brand's opportunities and threats and uncover forward-looking insights, in real time. Tomorrow's most successful brands are already embracing Outside Insight, benefitting from an information advantage while their competition is left behind. Drawing on practical examples of transformative, data-led decisions made by brands like Apple, Facebook, Barack Obama and

many more, in Outside Insight, Meltwater CEO Jorn Lyseggen illustrates the future of corporate decision-making and offers a detailed plan for business leaders to implement Outside Insight thinking into their company mindset and processes.

**Improving the Continued Airworthiness of Civil Aircraft** - National Research Council  
1998-09-11

As part of the national effort to improve aviation safety, the Federal Aviation Administration (FAA) chartered the National Research Council to examine and recommend improvements in the aircraft certification process currently used by the FAA, manufacturers, and operators.

Future Flight - National Research Council (U.S.).  
Transportation Research Board. Committee for a Study of Public-Sector Requirements for a Small Aircraft Transportation System 2002

Airline Operations and Delay Management - Dr Cheng-Lung Wu 2012-10-01

Airline Operations and Delay Management fills a gap within the area of airline schedule planning by addressing the close relationships between network development, economic driving forces, schedule demands and operational complexity. The pursuit of robust airline scheduling and reliable airline operations is discussed in light of the future trends of airline scheduling and technology applications in airline operations.  
Air Travel Consumer Report - 1994

The Passenger Has Gone Digital and Mobile -

Nawal K. Taneja 2011

Nawal K. Taneja explores and explains the game-changing opportunities presented to the industry by new-generation information and technology. He shows how information and technology can now drive, not just enable, an airline's strategy to become truly customer-centric at a personalized level, while at the same time enabling the operator to reduce costs, enhance revenues, reduce risks and become much more

flexible and agile by better managing complexity.

*The Global Airline Industry* - Peter Belobaba  
2015-07-06

Extensively revised and updated edition of the bestselling textbook, provides an overview of recent global airline industry evolution and future challenges Examines the perspectives of the many stakeholders in the global airline industry, including airlines, airports, air traffic services, governments, labor unions, in addition to passengers Describes how these different players have contributed to the evolution of competition in the global airline industry, and the implications for its future evolution Includes many facets of the airline industry not covered elsewhere in any single book, for example, safety and security, labor relations and environmental impacts of aviation Highlights recent developments such as changing airline business models, growth of emerging airlines, plans for modernizing air traffic management, and

opportunities offered by new information technologies for ticket distribution Provides detailed data on airline performance and economics updated through 2013

*Resource-Constrained Project Scheduling* - Christian Artigues 2013-03-01

This title presents a large variety of models and algorithms dedicated to the resource-constrained project scheduling problem (RCPSP), which aims at scheduling at minimal duration a set of activities subject to precedence constraints and limited resource availabilities. In the first part, the standard variant of RCPSP is presented and analyzed as a combinatorial optimization problem. Constraint programming and integer linear programming formulations are given. Relaxations based on these formulations and also on related scheduling problems are presented. Exact methods and heuristics are surveyed. Computational experiments, aiming at providing an empirical insight on the difficulty of the problem, are provided. The

second part of the book focuses on several other variants of the RCPSP and on their solution methods. Each variant takes account of real-life characteristics which are not considered in the standard version, such as possible interruptions of activities, production and consumption of resources, cost-based approaches and uncertainty considerations. The last part presents industrial case studies where the RCPSP plays a central part. Applications are presented in various domains such as assembly shop and rolling ingots production scheduling, project management in information technology companies and instruction scheduling for VLIW processor architectures.

**Command Of The Air** - General Giulio Douhet 2014-08-15

In the pantheon of air power spokesmen, Giulio Douhet holds center stage. His writings, more often cited than perhaps actually read, appear as excerpts and aphorisms in the writings of numerous other air power spokesmen,

advocates-and critics. Though a highly controversial figure, the very controversy that surrounds him offers to us a testimonial of the value and depth of his work, and the need for airmen today to become familiar with his thought. The progressive development of air power to the point where, today, it is more correct to refer to aerospace power has not outdated the notions of Douhet in the slightest. In fact, in many ways, the kinds of technological capabilities that we enjoy as a global air power provider attest to the breadth of his vision. Douhet, together with Hugh “Boom” Trenchard of Great Britain and William “Billy” Mitchell of the United States, is justly recognized as one of the three great spokesmen of the early air power era. This reprint is offered in the spirit of continuing the dialogue that Douhet himself so perceptively began with the first edition of this book, published in 1921. Readers may well find much that they disagree with in this book, but also much that is of enduring value. The vital

necessity of Douhet’s central vision-that command of the air is all important in modern warfare-has been proven throughout the history of wars in this century, from the fighting over the Somme to the air war over Kuwait and Iraq. *Airport System Development* - 1984

**Airline Operations and Management** - Gerald N. Cook 2017-02-03

*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.

### **Logistics Operations and Management** -

Reza Farahani 2011-05-25

This book provides a comprehensive overview of how to strategically manage the movement and storage of products or materials from any point in the manufacturing process to customer fulfillment. Topics covered include important tools for strategic decision making, transport, packaging, warehousing, retailing, customer services and future trends. An introduction to logistics Provides practical applications Discusses trends and new strategies in major parts of the logistic industry

### Airplane Flying Handbook (FAA-H-8083-3A) -

Federal Aviation Administration 2011-09-11

The Federal Aviation Administration's Airplane Flying Handbook provides pilots, student pi-lots, aviation instructors, and aviation specialists with information on every topic needed to qualify for

and excel in the field of aviation. Topics covered include: ground operations, cockpit management, the four fundamentals of flying, integrated flight control, slow flights, stalls, spins, takeoff, ground reference maneuvers, night operations, and much more. The Airplane Flying Handbook is a great study guide for current pilots and for potential pilots who are interested in applying for their first license. It is also the perfect gift for any aircraft or aeronautical buff.

### Airline Operations and Scheduling -

Massoud Bazargan 2016-03-23

Operations research techniques are extremely important tools for planning airline operations. However, much of the technical literature on airline optimization models is highly specialized and accessible only to a limited audience. Allied to this there is a concern among the operations research community that the materials offered in OR courses at MBA or senior undergraduate business level are too abstract, outdated, and at

times irrelevant to today's fast and dynamic airline industry. This book demystifies the operations and scheduling environment, presenting simplified and easy-to-understand models, applied to straightforward and practical examples. After introducing the key issues confronting operations and scheduling within airlines, *Airline Operations and Scheduling* goes on to provide an objective review of the various optimization models adopted in practice. Each model provides airlines with efficient solutions to a range of scenarios, and is accompanied by case studies similar to those experienced by commercial airlines. Using unique source material and combining interviews with alumni working at operations and scheduling departments of various airlines, this solution-orientated approach has been used on many courses with outstanding feedback. As well as having been comprehensively updated, this second edition of *Airline Operations and Scheduling* adds new chapters on fuel

management systems, baggage handling, aircraft maintenance planning and aircraft boarding strategies. The readership includes graduate and undergraduate business, management, transportation, and engineering students; airlines training and acquainting new recruits with operations planning and scheduling processes; general aviation, flight school, International Air Transport Association (IATA), and International Civil Aviation Organization (ICAO) training course instructors; executive jet, chartered flight, air-cargo and package delivery companies, and airline consultants.

**IATA Ground Operations Manual (IGOM) - 2021**

**Airline Operations Control** - Peter J. Bruce  
2020-12-28

This text is among the first to reveal the intricacies of an airline's Operations Control Centre; especially the thought processes, information flows, and strategies taken to

mitigate disruptions. Airline Operations Control provides a deep level of description, explanation and detail into the activities of a range of highly professional and expert staff managing the 'sharp' end of the airline. It aims to fill a void as little is understood about this area, and very little is written for practitioners in the airline business. The book offers a comprehensive look at the make-up of the Operations Centre, its component sections, and the processes that occur both in preparing for and executing the current day's schedules. Several chapters provide real-life scenarios and demonstrate how Operations Centres manage evolving situations – what they need to take into account, and how they need to have Plan B and Plan C ready when things don't go right. This book is designed to deliver knowledge gains to both new and experienced aviation industry practitioners with regards to vital operational aspects. Additionally, it also offers students of air transport management a readily accessible and

real-world-perspective guide to a crucial function present within every airline. Airport Slots - Achim I. Czerny 2016-12-14  
Over the past several decades, commercial air traffic has been growing at a far greater rate than airport capacity, causing airports to become increasingly congested. How can we accommodate this increased traffic and at the same time alleviate traffic delays resulting from congestion? The response outside the US has been to set a maximum number of slots and use administrative procedures to allocate these among competing airlines, with the most important consideration being 'grandfather rights' to existing carriers. The United States, on the other hand, has used administrative procedures to allocate slots at only four airports. In all other cases, flights have been handled on a first-come, first-served basis, with aircraft queuing for the privilege of landing or taking off from a congested airport. While recognizing the advantages of slot systems in lessening delays,

economists have criticized both approaches as being sub-optimal, and have advocated procedures such as slot auctions, peak-load pricing and slot trading to better utilize congested airports. Edited by an international team of air transport economists and drawing on an impressive list of contributors, *Airport Slots* provides an extremely comprehensive treatment of the subject. It considers the methods currently used to allocate slots and applies economic analysis to each. The book then explains various schemes to increase public welfare by taxing or pricing congestion, and describes alternate slot-allocation schemes, most notably slot auctions. In addition, *Airport Slots* outlines the complexities involved in slot-allocation methods, including the requirement for multiple slots - a take-off slot at London Heathrow is useless unless there is a landing slot available at Frankfurt for a London Frankfurt flight. Finally, the book explores the economic pitfalls of slot-allocation schemes; for

example, controls may not be required if external delay costs are internalized by a dominant carrier at its hub. *Airport Slots* provides a valuable contribution to the debate on how best to limit airport congestion. The book's comprehensive treatment of the subject matter provides the reader with a 'one-stop' volume to explore airport congestion and slot-allocation schemes, offering valuable insights to academics and practitioners alike.

*Disruption Management* - Gang Yu 2004

This pioneering book addresses the latest research findings and application results on disruption management, which is the study of how to dynamically recover a predetermined operational plan when various disruptions prevent the original plan from being executed smoothly.

***Airport Finance and Investment in the Global Economy*** - Anne Graham 2016-10-04

While there are a multitude of publications on corporate finance and financial management,

only a few address the complexity of air transport industry finance and scant attention has been given to airport financial management. This book deals exclusively with airport issues to rectify this. It does this with an analysis of the theoretical concepts relevant to the subject area combined with a detailed investigation of current practice within the industry. Airport Finance and Investment in the Global Economy bridges the gap between much academic research on airports published in recent years - lacking much managerial relevance - and real-world airport financial management. This is achieved by featuring expert analysis of contemporary issues specific to airport finance and funding strategies, illustrated by worked examples from a wide range of different countries to enhance understanding and create a global perspective. The book is designed to appeal to both practitioners and academics. Airport-specific topics include: performance measurement and benchmarking, valuation,

tools for financial control and management, alternatives of financing, privatisation, competition and implications of economic regulation.

### **Complexity Science in Air Traffic**

**Management** - Andrew Cook 2016-06-03

Air traffic management (ATM) comprises a highly complex socio-technical system that keeps air traffic flowing safely and efficiently, worldwide, every minute of the year. Over the last few decades, several ambitious ATM performance improvement programmes have been undertaken. Such programmes have mostly delivered local technological solutions, whilst corresponding ATM performance improvements have fallen short of stakeholder expectations. In hindsight, this can be substantially explained from a complexity science perspective: ATM is simply too complex to address through classical approaches such as system engineering and human factors. In order to change this, complexity science has to be embraced as ATM's

'best friend'. The applicability of complexity science paradigms to the analysis and modelling of future operations is driven by the need to accommodate long-term air traffic growth within an already-saturated ATM infrastructure. Complexity Science in Air Traffic Management is written particularly, but not exclusively, for transport researchers, though it also has a complementary appeal to practitioners, supported through the frequent references made to practical examples and operational themes such as performance, airline strategy, passenger mobility, delay propagation and free-flight safety. The book should also have significant appeal beyond the transport domain, due to its intrinsic value as an exposition of applied complexity science and applied research, drawing on examples of simulations and modelling throughout, with corresponding insights into the design of new concepts and policies, and the understanding of complex phenomena that are invisible to classical

techniques.

Modeling Applications in the Airline Industry - Ahmed Abdelghany 2016-04-15

Modeling Applications in the Airline Industry explains the different functions and tactics performed by airlines during their planning and operation phases. Each function receives a full explanation of the challenges it brings and a solution methodology is presented, supported by numerical illustrative examples wherever possible. The book also highlights the main limitations of current practice and provides a brief description of future work related to each function. The authors have filtered the rich literature of airline management to include only the research that has actually been adopted by the airlines, giving a genuinely accurate representation of real airline management and its continuing development of solution methodologies. The book consists of 20 chapters divided into 4 sections: - Demand Modeling and Forecasting - Scheduling of Resources - Revenue

## Management - Irregular Operations

Management. The book will be a valuable source or a handbook for individuals seeking a career in airline management. Written by experts with significant working experience within the industry, it offers readers insights to the real practice of operations modelling. In particular the book makes accessible the complexities of the key airline functions and explains the interrelation between them.

### *Modelling and Managing Airport Performance - Konstantinos Zografos 2013-06-17*

Modelling and Managing Airport Performance provides an integrated view of state-of-the-art research on measuring and improving the performance of airport systems with consideration of both airside and landside operations. The considered facets of performance include capacity, delays, economic costs, noise, emissions and safety. Several of the contributions also examine policies for managing congestion and allocating sparse capacity,

as well as for mitigating the externalities of noise, emissions, and safety/risk. Key features: Provides a global perspective with contributing authors from Europe, North and South America with backgrounds in academia, research institutions, government, and industry Contributes to the definition, interpretation, and shared understanding of airport performance measures and related concepts Considers a broad range of measures that quantify operational and environmental performance, as well as safety and risk Discusses concepts and strategies for dealing with the management of airport performance Presents state-of-the-art modelling capabilities and identifies future modelling needs Themed around 3 sections - Modelling Airport Performance, Assessing Airport Impacts, and Managing Airport Performance and Congestion Modelling and Managing Airport Performance is a valuable reference for researchers and practitioners in the global air transportation community.

Airline Operations and Delay Management -

Cheng-Lung Wu 2016-03-23

Airline Operations and Delay Management fills a gap within the area of airline schedule planning by addressing the close relationships between network development, economic driving forces, schedule demands and operational complexity.

The pursuit of robust airline scheduling and reliable airline operations is discussed in light of the future trends of airline scheduling and technology applications in airline operations.

The book extensively explores the subject from the perspectives of airline economics, airline network development and airline scheduling practices. Many operational issues and problems are the inevitable consequences of airline network development and scheduling philosophy, so a wide perspective is essential to address airline operations in their proper context. The influence of airline network development on schedule planning and operations driven by economic forces and

relaxed regulations is thoroughly examined for different types of operations in aviation such as network carriers and low-cost carriers. The advantages and disadvantages of running different networks and schedules are discussed and illustrated with real airline examples. In addition, this book provides readers with various mathematical models for solving different issues in airline operations and delay management. Airline Operations and Delay Management is ideal for senior undergraduate students as an introductory book on airline operations. The more advanced materials included in this book regarding modeling airline operations are suitable for postgraduate students, advanced readers and professionals interested in modeling and solving airline operational problems.

**The Airline Business in the Twenty-first Century** - Rigas Doganis 2001

This book will be useful for those working in the airline industry and for students.

A Human Error Approach to Aviation Accident

Analysis - Douglas A. Wiegmann 2017-12-22

Human error is implicated in nearly all aviation accidents, yet most investigation and prevention programs are not designed around any theoretical framework of human error.

Appropriate for all levels of expertise, the book provides the knowledge and tools required to conduct a human error analysis of accidents, regardless of operational setting (i.e. military, commercial, or general aviation). The book contains a complete description of the Human Factors Analysis and Classification System (HFACS), which incorporates James Reason's model of latent and active failures as a foundation. Widely disseminated among military and civilian organizations, HFACS encompasses all aspects of human error, including the conditions of operators and elements of supervisory and organizational failure. It attracts a very broad readership. Specifically, the book serves as the main textbook for a course in aviation accident investigation taught by one of

the authors at the University of Illinois. This book will also be used in courses designed for military safety officers and flight surgeons in the U.S. Navy, Army and the Canadian Defense Force, who currently utilize the HFACS system during aviation accident investigations.

Additionally, the book has been incorporated into the popular workshop on accident analysis and prevention provided by the authors at several professional conferences world-wide. The book is also targeted for students attending Embry-Riddle Aeronautical University which has satellite campuses throughout the world and offers a course in human factors accident investigation for many of its majors. In addition, the book will be incorporated into courses offered by Transportation Safety International and the Southern California Safety Institute. Finally, this book serves as an excellent reference guide for many safety professionals and investigators already in the field.

**Operations Research in the Airline Industry**

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 SCHEDULE PERTURBATION PROBLEM:  
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**Risk Assessment in Air Traffic Management**  
 - Javier Alberto Pérez Castán 2020-03-18  
 One of the most complex challenges for the  
 future of aviation is to ensure a safe integration

of the expected air traffic demand. Air traffic is expected to almost double its current value in 20 years, which cannot be managed without the development and implementation of a safe air traffic management (ATM) system. In ATM, risk assessment is a crucial cornerstone to validate the operation of air traffic flows, airport processes, or navigation accuracy. This book tries to be a focal point and motivate further research by encompassing crosswise and widespread knowledge about this critical and exciting issue by bringing to light the different purposes and methods developed for risk assessment in ATM.

**Airport Planning & Management, Seventh Edition** - Seth Young 2019-02-08

The definitive guide to airport planning and management—fully updated with the latest advances in the industry. This thoroughly revised guide covers all aspects of airport infrastructure—from the airfield and runway to airspace, air traffic control, and terminal and

security systems. Airport Planning & Management, Seventh Edition clearly explains the FAA's National Plan of Integrated Airport Systems (NPIAS), historical and current legislation and regulations, FAR Part 139, and more. You'll explore cutting-edge concepts such as automation, smart baggage handling, enhanced security, and analytics. Updated questions for review and discussion will bring new insights to your knowledge of how airports are planned and managed. Coverage includes:

- An introduction to airports and airport systems
- Airport and airport systems organization and administration
- Historical and legislative perspectives
- The airfield
- Airspace and air traffic management
- Airport operations management under FAR Part 139
- Airport terminals and ground access
- Airport security
- Airport financial management
- Economic, political, and social role of airports
- Airport planning
- Airport capacity and delay
- The future of airport management

## **Quantitative Problem Solving Methods in the Airline Industry** - Cynthia Barnhart

2011-12-21

This book reviews operations research theory, applications and practice in airline planning and operations. It examines the business and technical landscape, details best practices, and identifies open questions and areas for future research.

## A New Approach for Disruption Management in Airline Operations Control - António J. M. Castro

2014-06-19

Most of the research efforts dealing with airline scheduling have been done on off-line plan optimization. However, nowadays, with the increasingly complex and huge traffic at airports, the real challenge is how to react to unexpected events that may cause plan-disruptions, leading to flight delays. Moreover these disruptive events usually affect at least three different dimensions of the situation: the aircraft assigned to the flight, the crew

assignment and often forgotten, the passengers' journey and satisfaction. This book includes answers to this challenge and proposes the use of the Multi-agent System paradigm to rapidly compose a multi-faceted solution to the disruptive event taking into consideration possible preferences of those three key aspects of the problem. Negotiation protocols taking place between agents that are experts in solving the different problem dimensions, combination of different utility functions and not less important, the inclusion of the human in the automatic decision-making loop make MASDIMA, the system described in this book, well suited for real-life plan-disruption management applications.

## *The Airline Business* - Rigas Doganis 2006

The second edition of Rigas Doganis' book brings the airline industry story up to date, exploring airline mergers and alliances, price wars, the impact of disasters and the future prospects for the industry as a whole.

**Airline Choices for the Future** - Kostas Iatrou  
2016-03-16

Airline Choices for the Future: From Alliances to Mergers offers an up-to-date assessment of the industry as it stands today, delivering a comprehensive insight into how the world of airline alliances is changing, and how the merger phenomenon is likely to fit into the new scenario. The purpose of this book is twofold. Firstly, it outlines the evolution and the reasons behind alliances between international air carriers, the alliances' track records and the way they have affected airlines and the air transport industry. Secondly, drawing on past and more recent developments in the industry, it examines the experiences airlines involved in cross-border mergers have gone through and the advantages and difficulties they have come across. Alliances and mergers are presented from both the airline and the consumer perspective. The book provides a balanced account of where mergers and alliances have taken the industry to date,

bridging the gap between merger theory and implemented practices and strategies. It also identifies the challenges alliances and cross-border mergers have faced and highlights the key forces affecting airline development. Theoretical evidence is supplemented by data collected via surveys and interviews with airline executives, aviation experts, consultants and regulatory bodies.

**Attention All Passengers** - William J. McGee  
2012-06-26

A Fast Food Nation for the airline industry, Attention All Passengers is a shocking and important exposé revealing the real state of the “friendly skies” in which we fly. Award-winning Consumer Reports travel journalist William McGee, a former editor of the Consumer Reports Travel Letter, spent nearly seven years in airline flight operations management, and what he learned was less than uplifting. From TSA power grabs and an endemic lack of oversight to legislative battles and lobbying boondoggles to

antiquated flight patterns and outsourced maintenance workers, the airlines and the Government are in cahoots, conspiring to turn a profit any way they can, no matter who has to pay the price. A provocative and hard-hitting call to action, Attention All Passengers will explode all our previous misconceptions about the airline industry.

**The Goal** - Eliyahu M. Goldratt 2016-08-12  
Alex Rogo is a harried plant manager working ever more desperately to try and improve performance. His factory is rapidly heading for disaster. So is his marriage. He has ninety days to save his plant - or it will be closed by corporate HQ, with hundreds of job losses. It takes a chance meeting with a colleague from student days - Jonah - to help him break out of conventional ways of thinking to see what needs to be done. Described by Fortune as a 'guru to industry' and by Businessweek as a 'genius', Eliyahu M. Goldratt was an internationally recognized leader in the development of new

business management concepts and systems. This 20th anniversary edition includes a series of detailed case study interviews by David Whitford, Editor at Large, Fortune Small Business, which explore how organizations around the world have been transformed by Eli Goldratt's ideas. The story of Alex's fight to save his plant contains a serious message for all managers in industry and explains the ideas which underline the Theory of Constraints (TOC) developed by Eli Goldratt. Written in a fast-paced thriller style, The Goal is the gripping novel which is transforming management thinking throughout the Western world. It is a book to recommend to your friends in industry - even to your bosses - but not to your competitors!

*Operations Management in Context* - Frank Rowbotham 2012-05-23

Operations Management in Context provides students with excellent grounding in the theory and practice of operations management and its

role within organizations. Structured in a clear and logical manner, it gradually leads newcomers to this subject through each topic area, highlighting key issues, and using practical case study material and examples to contextualize learning. Each chapter is structured logically and concludes with summary material to aid revision. Exercises and self-assessment questions are included to reinforce learning and maintain variety, with answers included at the end of the text.

**Consumer Protection for Airline Passengers**  
- United States. Congress. House. Committee on Public Works and Transportation. Subcommittee on Aviation 1987

[Understanding Decision-making Processes in Airline Operations Control](#) - Peter J. Bruce 2011  
Understanding Decision-Making Processes in Airline Operations Control focuses on an area largely overlooked: an airline's Operations Control Centre (OCC). This serves as the nerve

centre of the airline and is responsible for decision-making with respect to operational control of an airline's daily schedules. The book examines many aspects of individual decision-making in airline operations, and addresses the deficiencies found by presenting to the reader an examination of the relationships among situation awareness, information completeness, experience, expertise, decision considerations and decision alternatives in OCCs.

**Understanding Decision-making Processes in Airline Operations Control** - Peter J. Bruce  
2016-02-17

Previous studies conducted within the aviation industry have examined a multitude of crucial aspects such as policy, airline service quality, and revenue management. An extensive body of literature has also recognised the importance of decision-making in aviation, with the focus predominantly on pilots and air traffic controllers. Understanding Decision-Making Processes in Airline Operations Control focuses

instead on an area largely overlooked: an airline's Operations Control Centre (OCC). This serves as the nerve centre of the airline and is responsible for decision-making with respect to operational control of an airline's daily schedules. The environment within an OCC is extremely intense and a key role of controllers is to make decisions that facilitate the airline's recovery from frequent, highly complex, and often multiple disruptions. As such, decision-making in this domain is critical to minimise the operational, commercial and financial impact resulting from disruptions. The book examines many aspects of individual decision-making in airline operations, and addresses the deficiencies found by presenting to the reader an examination of the relationships among situation awareness, information completeness, experience, expertise, decision considerations and decision alternatives in OCCs. The text utilises a multiple case study approach and proposes a number of relevant and important

implications for OCC management. Practical outcomes highlight the need for enhancing training programs enabling existing controllers to readily identify and classify elements of situation awareness and decision considerations as a means of improving the decision-making process. They also draw attention to the need for airline OCCs to understand the extent to which industry experience and expertise of controllers is important in the selection of future staff.

Guide for All-Hazard Emergency Operations Planning - Kay C. Goss 1998-05

Meant to aid State & local emergency managers in their efforts to develop & maintain a viable all-hazard emergency operations plan. This guide clarifies the preparedness, response, & short-term recovery planning elements that warrant inclusion in emergency operations plans. It offers the best judgment & recommendations on how to deal with the entire planning process -- from forming a planning team to writing the plan. Specific topics of

discussion include: preliminary considerations, the planning process, emergency operations plan format, basic plan content, functional annex content, hazard-unique planning, & linking Federal & State operations.

Aviation and Its Management - Arif Sikander  
2019-05-22

Aviation has grown leaps and bounds within the last decade. Aviation courses and training at all levels have shown an exponential increase around the globe. There has been a restricted focus on writing books in this sector of the economy, mainly due to the shortage of expertise in this specialist and complex area. This book was written with the purpose of meeting this need of the aviation sector. Due to the diversified nature of aviation knowledge, which includes flying, engineering, airports, allied trades for aircraft and airports, airline and airport management and operations, education, etc., one text alone will not suffice and do justice

to address all these areas. It is envisaged to develop subsequent parts of this book to cover all these knowledge areas. This book is the first installment of any subsequent books and explores issues including airline management and operations, airline business models, airport systems, flight operational procedures, aircraft maintenance, runway safety management systems, and air traffic management. In particular, attention will be given to aspects such as analysis of air traffic in a domestic market, runway safety management systems, critical success factors for multiple MRO service providers, key pain points of the industry to be addressed to move into the future, new research on hub airports for international flights, new business models for airlines, and runway safety management systems. This book is useful to aviation managers, educators, students, and professionals interested in any of the above issues.