

# The Air Logistics Handbook Air Freight And The Global Supply Chain

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[Air Power and Freight](#) - David Bonilla 2019-10-25

This book addresses the challenges of planning sustainable freight transport systems (road and air) in a time when the industry faces increasing pressure from environmental limits, climate change, carbon emission targets, bottlenecks in oil supply, infrastructure shortages and urban congestion. The author examines sustainable freight transport over the last 45 years on three continents, and includes developments on transport economics, logistics and transport geography as well as environmental economics. Readers will gain valuable insight on a number of practices and methodologies that will assist in making their systems more sustainable with fewer negative environmental effects at both the local and global level.

[Air Transport Management](#) - Lucy Budd 2020

"Air Transport Management: An International Perspective provides in-depth instruction in the diverse and dynamic area of commercial air transport management. The 2nd edition has been extensively revised and updated to reflect the latest developments in the sector. The textbook includes both introductory reference material and more advanced content so as to provide a solid foundation in the core principles and practices of air transport management. This second edition includes a new chapter on airline regulation and deregulation and new dedicated chapters focusing on aviation safety and aviation security. Four new contributors bring additional insights and expertise to the book. The 2nd edition retains many of the key features of the 1st edition, including: A clearly structured topic-based approach that provides the reader with information on key air transport management issues including: aviation law, economics; airport and airline management; finance; environmental considerations, human resource management; and marketing; Chapters authored by leading air transport academics and practitioners worldwide provide an international perspective; Learning objectives and key points which provide a framework for learning; Boxed case studies and examples in each chapter; Keyword definitions and stop and think boxes are used to prompt reflection and aid understanding of key terms and concepts. Designed for undergraduate and postgraduate students studying aviation and business management degree programmes and industry practitioners seeking to expand their knowledge base, the book provides a single point of reference to the key legal, regulatory, strategic and operational concepts and processes that shape the form and function of the world's commercial air transport industry"--

[The Handbook of Logistics and Distribution Management](#) - Alan Rushton 2006

Containing revisions to areas, such as manufacturing logistics, integrated logistics, process design and home delivery, this handbook includes sections on warehouse receipt and despatch.

**Global Logistics Strategies** - John Manners-Bell 2013-11-03

Global Logistics Strategies offers a step-by-step guide to global logistics. Covering the breadth of logistics, this highly accessible text covers everything you need to know and is illustrated by engaging case studies of market leaders such as DHL. In this comprehensive book, John Manners-Bell provides an in-depth definition, description and exploration of: freight forwarding, contract logistics, shipping, road freight, air cargo and express. The book also examines major sectors, including Automotive, Chemical, Pharmaceutical, Retail, Consumer, and High Tech. Global Logistics Strategies offers a detailed examination of key topics, including: how the logistics industry has developed, how it is influenced by macro-economic factors and demand-side trends, what the risks are to the industry, and how it will develop over the coming years. It examines important trends and developments that are shaping the industry, including 3D printing, megacities, and post-harvest food losses. Includes online resources, including chapter summaries and figures.

*The Air Logistics Handbook* - Michael Sales 2013

Why study air cargo? Consider that this sector moves only 2% of the global volume of goods but a huge 35% by value, reserved for the most costly and time-sensitive products. Air logistics is an economically and strategically important industry, and a rich source of opportunity for graduating students and logistics or SCM professionals. Get a head start in this vital part of your business with this comprehensive and lively overview. It's the only book available to focus on the role of air freight in the global supply chain. It includes a brief history; the functions of the various players in the industry (forwarders, airlines, airports, government agencies); regulations and restrictions; terrorism management. It details the benefits of air transport, and weighs them against its considerable environmental impact to explore the question of its sustainability. Finally, it considers the future of the industry in a dynamic and increasingly globalised world. Enriched throughout with real life case studies and contributions from global industry experts, this is a ground-level introduction with a practical approach: all the student or professional will need to get ahead in air logistics!

**Moving Boxes by Air** - Peter S. Morrell 2016-04-22

Air cargo is a key element of the global supply chain. It allows outsourcing of manufacturing to other countries and links production in both multinational and smaller enterprises. It has also been the most important driver of certain export industries in countries such as South Africa, Kenya and Chile. As a component of the air transport industry, air cargo makes the crucial difference between profit and loss on many long-haul routes. For some network combination carriers it accounts for up to half of total tonne-kms flown, and as much as one quarter of total revenue. In addition, the integrated carriers such as DHL, FedEx and TNT have their own fleets of dedicated freighter aircraft, and cargo aircraft operators like Cargolux and Nippon Cargo have a specialist role in the industry. Featuring expert analysis and worked examples to enhance understanding, *Moving Boxes by Air* by Peter Morrell offers a comprehensive and up-to-date guide to the business and practices of air cargo, with a chapter dedicated to each key issue, such as: current trends, market characteristics, regulation, airport terminal operations, pricing and revenues, and environmental impacts.

**Import / Export Kit For Dummies** - John J. Capela 2015-10-12

Your easy-to-follow primer on the exciting world of import/export With an increased focus on global trade, this new edition of *Import/Export Kit For Dummies* provides entrepreneurs and small- to mid-sized businesses with the critical, entry-point information they need to begin exporting their products around the world—as well as importing goods to sell. Inside, you'll find the most up-to-date information on trade regulations, where to turn for additional guidance on seamlessly navigating the dreaded red tape, and much more. With significant changes in technology, expanding economics, and international trade agreements, the global marketplace continues to grow and change rapidly. In fact, companies that do business internationally are proven to grow faster and fail less often than companies that don't. This authoritative reference is packed with everything you need to get started, so why not get in on the game while the going is good? Gets you up to speed on the lingo of international business Shows you how to follow guidelines for developing a successful business and marketing plan Helps you understand distributor and agent agreement outlines Offers unprecedented insight on pinpointing the right markets for your import/export business Importing and exporting goods is a valuable way to expand your business and take part in the global economy, and this hands-on, friendly guide shows you how.

**4th Party Cyber Logistics for Air Cargo** - Sung-Chi Chu 2006-04-11

4th Party Cyber Logistics For Air Cargo is a technical discussion for researchers and practitioners to understand the issues, models, and

future directions of air cargo logistics in the cyber era. This book introduces the many aspects of planning and control of air cargo logistics processes in an e-Business environment. The authors approach this subject matter from the perspective of the logistics service providers. There is tremendous potential of achieving industry-wide collaboration between agents of the air cargo industry via an e-Business community platform. At the same time, there are many intellectually challenging problems regarding the architecture, ownership, decision support environment, and knowledge management of such an e-Business platform. The authors provide an evolutionary view to conceptualize the developments of websites where e-Commerce activities and e-Business activities co-exist. Four Web eras are detailed, providing an impetus for the development of frameworks of an e-Business platform for air cargo logistics, or e-Platform. The conceptual framework captures the new elements in cyber logistics and what the framework can do for the industry.

**Industries Without Smokestacks** - Richard S. Newfarmer 2018

A study prepared by the United Nations University World Institute for Development Economics Research (UNU-WIDER)

**Aviation Logistics** - Michael Sales 2016-02-03

Aviation Logistics looks at the function of the air cargo business and its role in global supply chains and logistics. As global economies are constantly evolving, the supply chain business with its transport partners must be proactive for the future. Technology and its resulting efficiency and transparency are therefore a central part of this book. Aviation Logistics examines how carriers are coming up with new methods and technologies to improve ground handling and road transport, traceability systems and barcoding, security and screening, and safe delivery of perishable items (such as in the pharmaceutical and medical sectors). Endorsed by The International Air Cargo Association (TIACA), Aviation Logistics is supplemented with case studies and contributions from a team of experts including Oliver Evans and Stan Wraight, both industry experts. Online resources available: Air Cargo News' Freight Directory.

**Efficiency and Growth of Ethiopian Air Transport Industry** - Tsegay Kaleab Atsbaha 2022-10-21

This book evaluates the efficiency and growth of the Ethiopian air transport sector through careful analysis. It provides essential research input for air transport industry practitioners in planning and resource management as well as for academics of advanced efficiency analysis who need to work and study in airports and the airline industry. The book analyzes the theoretical and practical implications of air transport growth determinants, airports' cost and production efficiency, including labor use efficiency by taking their respective determinant factors. The findings and policy implications of each research work provide important inputs for government policymakers and air transport planners to consider the causality of economic growth versus airlines growth and other determinants, to take lessons on the proper resource allocation in the application of airport cost and production efficiency, human capital, investment cost, price of capital, and labor inputs during the development and expansion of airports and airlines. This book is the first of its kind on the Ethiopian air transport industry and serves as a much-needed reference for the African air transport industry as well as other developing countries in terms of airport costs, production, labor use efficiency and airline growth perspectives.

**Handbook of Logistics and Supply-Chain Management** - Ann M. Brewer 2001

This volume contains commissioned refereed papers that cover the main elements of transport logistics. The authors were selected from around the world and asked to provide critiques of their subject areas as well as a review of the state of the art and case study examples.

**Air Transport System** - Dieter Schmitt 2015-10-15

The book addresses all major aspects to be considered for the design and operation of aircrafts within the entire transportation chain. It provides the basic information about the legal environment, which defines the basic requirements for aircraft design and aircraft operation. The interactions between airport, air traffic management and the airlines are described. The market forecast methods and the aircraft development process are explained to understand the very complex and risky business of an aircraft manufacturer. The principles of flight physics as basis for aircraft design are presented and linked to the operational and legal aspects of air transport including all environmental impacts. The book is written for graduate students as well as for engineers and experts, who are working in aerospace industry, at airports or in the domain of transport and logistics.

**The Routledge Handbook of Public Transport** - Corinne Mulley

2021-05-13

The Routledge Handbook of Public Transport is a reference work of chapters providing in-depth examination of the current issues and future developments facing public transport. Chapters in this book are dedicated to specific key topics, identifying the challenges therein and pointing to emerging areas of research and concern. The content is written by an international group of expert contributors and is enhanced through contributions from practitioners to deliver a broader perspective. The Handbook deals with public transport policy context, modal settings, public transport environment, public transport delivery issues, smart card data for planning and the future of public transport. This comprehensive reference work will be a vital source for academics, researchers and transport practitioners in public transport management, transport policy and transport planning.

**Air Cargo in Mainland China and Hong Kong** - Anming Zhang 2017-09-29

Air traffic and the aviation industry have grown rapidly on the Chinese mainland in the two and a half decades since China's open door policy. Accession to the WTO will further stimulate trade and foreign direct investment (FDI), intensifying the demand for air cargo services. It will also open up the Chinese economy to foreign participation in the transportation and logistics sectors, making these sectors more competitive and efficient. This book provides a systematic and comprehensive study of China's air cargo industry as well as its policy evolution. It covers the sources and destinations of air cargo in mainland China and Hong Kong: whence it comes and where it goes to. The major hubs of the transportation network - Beijing, Shanghai, Hong Kong, and Guangzhou - are discussed one by one. The virtual aspects of the network at these hubs in terms of IT applications, preparedness, and needs are examined and compared. Though the subject matter of this book is air cargo, there is considerable coverage of the aviation industry and policy on the mainland and Hong Kong. Changes have been happening so fast there are few books and publications that cover them systematically and comprehensively. Readership includes business executives in airfreight companies, airports and airlines, logistics specialists, aviation university lecturers and students.

**Encyclopedia of Transportation** - Mark Garrett 2014-08-13

Viewing transportation through the lens of current social, economic, and policy aspects, this four-volume reference work explores the topic of transportation across multiple disciplines within the social sciences and related areas, including geography, public policy, business, and economics. The book's articles, all written by experts in the field, seek to answer such questions as: What has been the legacy, not just economically but politically and socially as well, of President Eisenhower's modern interstate highway system in America? With that system and the infrastructure that supports it now in a state of decline and decay, what's the best path for the future at a time of enormous fiscal constraints? Should California politicians plunge ahead with plans for a high-speed rail that every expert says—despite the allure—will go largely unused and will never pay back the massive investment while at this very moment potholes go unfilled all across the state? What path is best for emerging countries to keep pace with dramatic economic growth for their part? What are the social and financial costs of gridlock in our cities? Features: Approximately 675 signed articles authored by prominent scholars are arranged in A-to-Z fashion and conclude with Further Readings and cross references. A Chronology helps readers put individual events into historical context; a Reader's Guide organizes entries by broad topical or thematic areas; a detailed index helps users quickly locate entries of most immediate interest; and a Resource Guide provides a list of journals, books, and associations and their websites. While articles were written to avoid jargon as much as possible, a Glossary provides quick definitions of technical terms. To ensure full, well-rounded coverage of the field, the General Editor with expertise in urban planning, public policy, and the environment worked alongside a Consulting Editor with a background in Civil Engineering. The index, Reader's Guide, and cross references combine for thorough search-and-browse capabilities in the electronic edition. Available in both print and electronic formats, Encyclopedia of Transportation is an ideal reference for libraries and those who want to explore the issues that surround transportation in the United States and around the world.

**The Geographies of Air Transport** - Dr Lucy Budd 2014-07-28

Making a detailed contribution to geographies of air transport and aeromobility, this book examines the practices and processes that produce particular patterns of air transport provision both regionally and globally. In so doing, it updates the seminal contributions of Eva Taylor

(1945), Kenneth Sealy (1957), Brian Graham (1995) and others to the study of air transport geography. Leading scholars in the field offer a unique insight into the key developments that have occurred in the field and the implications that these developments have had for geography, geographers, and global patterns of past, present and future air transport. Although globalization and liberalization processes have greatly expanded the demand for air transport over the last two decades, the industry has experienced several major setbacks due to economic, security, and environmental concerns. Many of these impacts have been much more pronounced in some regions, such as North America and Europe while others, such as Asia-Pacific have not been as adversely affected. Accordingly, there is a clear need to examine these recent economic and geopolitical changes from a geographical perspective given the differentiated pattern of effects from global processes. Addressing this need, this volume opens with thematic chapters covering key topics such as the historical geographies, socio-cultural mobilities, environmental externalities, urban geographies, and sustainability of the global air transport industry, followed by regional analysis of the industry in Asia-Pacific, Latin America, Greater Middle East and Africa as well as North America and Europe.

**The Air Transportation Industry** - Rosario Macario 2021-11-16

The Air Transportation Industry: Economic Conflict and Competition analyzes all market segments in detail, examining such issues as which industrial-economic structure drives decisions, the main economic problems, the consequences for negotiations between different actors, impacts on the global aviation market, and much more. The book covers the entire aviation sector, including strategies, regulation, resilience, privatization, airport slot management, and more. It examines how economic and strategic struggles underlie the current market structure, both for aviation as a whole and for the constituent actors as carriers, authorities and handlers. This book will help reader gain insights into possible strategic choices and the mutual competitive strength within the future aviation market. Contains contributions from well-known aviation scholars Includes numerous cases studies throughout that explore a wide range of topics Focuses on applied knowledge, with clearly structured chapters examining topics from a global perspective Addresses the ongoing consequences of COVID-19 on the air transportation industry, examining potential strategic responses in the event of subsequent pandemics

*Air Cargo Management* - Michael Sales 2016-12-16

Air Cargo Management provides a comprehensive and lively overview of the air cargo industry, which is both economically and strategically important in the field of logistics, world trade and supply chain management. This new edition builds on the success of the previous edition, focusing on the role of air freight in the global supply chain, including areas such as: the main players in the industry; regulations and restrictions; and terrorism management. Updates to this edition include: the role of E-Commerce and its changing influence on the industry; a new chapter on crime, security and terrorism; updated case studies, and new contributors providing professional insight from the industry. Enriched throughout with international case studies and contributions from industry experts, Air Cargo Management provides a practical approach. It is the perfect companion for undergraduate students studying air logistics, transportation logistics, air cargo and supply chain management. Professionals and managers in the field will also find Sales' easy style and industry insights useful and applicable to their practice.

**Air Cargo** - Joachim G. Schäfer 2022-11-03

This book uses numerous examples to describe the current opportunities and risks of air freight against the backdrop of stagnating transport volumes since the financial crisis in 2008. It shows what impact these developments have had on those involved, in particular shippers, airlines, airports and freight forwarders. The application-oriented presentation also provides an insight into the design of complex supply chains and the areas of tension in which the players in air freight operate.

Logistics Transportation Systems - MD Sarder 2020-10-17

Logistics Transportation Systems compiles multiple topics on transportation logistics systems from both qualitative and quantitative perspectives, providing detailed examples of real-world logistics workflows. It explores the key concepts and problem-solving techniques required by researchers and logistics professionals to effectively manage the continued expansion of logistics transportation systems, which is expected to reach an estimated 25 billion tons in the United States alone by 2045. This book provides an ample understanding of logistics transportation systems, including basic concepts, in-depth modeling analysis, and network analysis for researchers and practitioners. In

addition, it covers policy issues related to transportation logistics, such as security, rules and regulations, and emerging issues including reshoring. This book is an ideal guide for academic researchers and both undergraduate and graduate students in transportation modeling, supply chains, planning, and systems. It is also useful to transportation practitioners involved in planning, feasibility studies, consultation and policy for transportation systems, logistics, and infrastructure. Provides real-world examples of logistics systems solutions for multiple transportation modes, including seaports, rail, barge, road, pipelines, and airports Covers a wide range of business aspects, including customer service, cost, and decision analysis Features key-term definitions, concept overviews, discussions, and analytical problem-solving

**Law and Regulation of Air Cargo** - Ruwantissa Abeyratne 2018-07-23

This book explores the legal and regulatory aspects of the complex air cargo sector, discussing in detail the general principles of the carriage of air cargo; artificial intelligence and air cargo; facilitation; carriage of hazardous goods; human remains; and animals, as well as cargo security; price fixing and anti competitive conduct in air cargo operations; liability issues; the air cargo supply chain and contract of carriage. It also discusses related achievements of the International Civil Aviation Organization; the International Air Transport Association and Airports Council International. The value of goods carried by airlines represents 7.4% of the global Gross Domestic Product. While cargo carried by air accounts for less than 1% of global cargo carriage, airlines carry 35% of the value of world trade, making this industry highly valuable and efficient, and the most reliable way to transport goods throughout the world. On average, airlines transport 52 million metric tons of goods per annum, worth an equivalent of \$6.8 trillion, i.e. \$18.6 billion worth of goods daily.

Shaping Air Transport in Asia Pacific - Tae Hoon Oum 2019-06-04

This title was first published in 2000: A comprehensive assessment of the markets and outlook for the air transport industry in the Asia-Pacific region. The book examines options for improvement of the regulatory system and industry structure, drawing on experience within and outside of the region. It includes the short- and long-term effects of the current economic crisis on Asian airlines and air transport markets and differs from other works due to its description and analysis of all major aspects of the Asian air transport industry and airlines.

The Handbook of Logistics and Distribution Management - Alan Rushton 2000

Designed for students, young managers and seasoned practitioners alike, this handbook explains the nuts and bolts of the modern logistics and distribution world in plain language. Illustrated throughout, this second edition includes new chapters on areas previously not covered, such as: intermodal transport; benchmarking; environmental matters; and vehicle and depot security.

Air Transport Management - Lucy Budd 2016-11-10

Commercial air transport is a global multimillion dollar industry that underpins the world economy and facilitates the movement of over 3 billion passengers and 50 million tonnes of air freight worldwide each year. With a clearly structured topic-based approach, this textbook presents readers with the key issues in air transport management, including: aviation law and regulation, economics, finance, airport and airline management, environmental considerations, human resource management and marketing. The book comprises carefully selected contributions from leading aviation scholars and industry professionals worldwide. To help students in their studies the book includes case studies, examples, learning objectives, keyword definitions and 'stop and think' boxes to prompt reflection and to aid understanding. Air Transport Management provides in-depth instruction for undergraduate and postgraduate students studying aviation and business management-related degrees. It also offers support to industry practitioners seeking to expand their knowledge base.

**The Air Logistics Handbook** - Michael Sales 2013-07-18

Why study air cargo? Consider that this sector moves only 2% of the global volume of goods but a huge 35% by value, reserved for the most costly and time-sensitive products. Air logistics is an economically and strategically important industry, and a rich source of opportunity for graduating students and logistics or SCM professionals. Get a head start in this vital part of your business with this comprehensive and lively overview. It's the only book available to focus on the role of air freight in the global supply chain. It includes a brief history; the functions of the various players in the industry (forwarders, airlines, airports, government agencies); regulations and restrictions; terrorism management. It details the benefits of air transport, and weighs them

against its considerable environmental impact to explore the question of its sustainability. Finally, it considers the future of the industry in a dynamic and increasingly globalised world. Enriched throughout with real life case studies and contributions from global industry experts, this is a ground-level introduction with a practical approach: all the student or professional will need to get ahead in air logistics!

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**The Routledge Handbook of Transport Economics** - Jonathan Cowie 2017-08-07

*The Routledge Handbook of Transport Economics* offers the first state of the art overview of the discipline of transport economics as it stands today, reflective of key research and policy. Transport is an important area of study and one which is problem rich, stimulating a great deal of debate in areas which impact on everyday lives. Much of this focuses on the practicalities of the modern-day phenomenon of mass movement and all of the issues which surround it. The discipline of economics is central to this debate, and consequently the study and application of transport economics has a chief role to play in seeking to address subjects relating to major transport issues. It can be argued that at the very heart of any transport issue or problem lies the underlying economics of the situation - understand that and you alleviate the problem. Featuring contributions from world-leading scholars and practitioners from across the globe, all of the chapters within this book are written from a practical perspective; theory is applied and developed using real-world examples. The book examines concepts, issues, ideas and practicalities of transport provision in five key topic areas: public transport public transport reform economic development and transport modelling transport and the environment freight transport. A real strength of the book is in linking theory to practice, and hence the 'economics' that are examined in this text are not the economics of the abstract, but rather the economics of everyday living. Practical and insightful, this volume is an essential reference for any student or researcher working in all areas of transport provision, ranging from planning, appraisal, regulation and freight; and for all practitioners looking to develop their professional knowledge and who are seeking professional accreditation.

*Evolution of International Aviation* - Professor Dawna L Rhoades 2014-11-28

As with the previous two editions, *Evolution of International Aviation* reviews the historical development of the international aviation system. From this foundation it then provides an updated and expanded account of the current state of the aviation and aerospace industry including profitability, consolidation, and merger activity. New to this edition, the book broadens the coverage of the industry segments - airlines, air cargo, and manufacturing - to include the emerging commercial space sector. Because this book is intended for both the interested amateur and the more serious student, references are provided in the text and at the end of each chapter to allow for further in-depth study. The third edition also adds to each chapter a set of learning objectives and a concluding series of questions for discussion.

**The Routledge Companion to Air Transport Management** - Taylor & Francis Group 2020-09-30

*The Routledge Companion to Air Transport Management* provides a comprehensive, up-to-date review of air transport management research and literature. This exciting new handbook provides a unique repository of current knowledge and critical debate with an international focus, considering both developed and emerging markets, and covering key sectors of the air transport industry. The companion consists of 25 chapters that are written by 39 leading researchers, scholars and industry experts based at universities, research institutes, and air

transport companies and organisations in 12 different countries in Africa, Asia-Pacific, Europe and North America to provide a definitive, trustworthy resource. The international team of contributors have proven experience of research and publication in their specialist areas, and contribute to this companion by drawing upon research published mainly in academic, industry and government sources. This seminal companion is a vital resource for researchers, scholars and students of air transport management. It is organised into three parts: current state of the air transport sectors (Part I); application of management disciplines to airlines and airports (Part II); and key selected themes (Part III).

*Introduction to Air Cargo Management* - Babu P 2020-11-12

This book covers introduction about air cargo business and all necessary procedures and documentations required for import and export of cargo by air. This book briefly illustrates procedures for handling dangerous goods by air. Basics of supply chain management and its significance in air transportation also highlighted from the Indian perspective. This book will be useful and serve as a guide for the aspiring learners in the field of Air Cargo and Logistics 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.

*Global Logistics* - James H. Bookbinder 2012-06-30

This book offers complete coverage of logistics, examining modes, general issues, logistics in specific regions, free-trade zones, innovations in international logistics, case studies and a look at the future.

*Strategic Management in the Aviation Industry* - Herbert Baum 2005

This book offers a comprehensive overview of current issues in aviation today and provides strategic measures to help meet the challenges inherent in a dynamic industry. It discusses such issues as alliance management, strategic issues for air freight carriers and environmental impacts. The book combines both concepts and results from recent academic research with applications and case studies from major industry players.

**Air Transportation Systems Engineering** - George L. Donohue 2001

**Research Anthology on Reliability and Safety in Aviation Systems, Spacecraft, and Air Transport** - Management Association, Information Resources 2020-09-24

As with other transportation methods, safety issues in aircraft can result in a total loss of life. Recently, the air transport industry has come under immense scrutiny after several deaths occurred due to aircraft design and airlines that allowed improperly inspected aircraft to fly. Spacecraft too have found errors in system software that could lead to catastrophic failure. It is imperative that the aviation and aerospace industries continue to revise and refine safety protocols from the construction and design of aircraft, to secure and improve aviation systems, and to test and inspect aircraft. The *Research Anthology on Reliability and Safety in Aviation Systems, Spacecraft, and Air Transport* is a vital reference source that examines the latest scholarly material on 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. It also covers new information technology use in aviation systems to streamline the cybersecurity, decision making, planning, and design processes within the aviation industry. Highlighting a range of topics such as air navigation systems, computer simulation, and airline operations, this multi-volume book is ideally designed for pilots, scientists, engineers, aviation operators, air traffic controllers, air crash investigators, teachers, academicians, researchers, and students.

**Intermodal Freight Transport and Logistics** - Jason Monios 2017-06-14

Applying sophisticated management techniques to freight transport offers the potential for significant cost savings as well as greater efficiency. Yet the inherent complexity of intermodal transport presents many challenges. This practical textbook on the operations of intermodal transport and logistics focuses on the practical concerns and the basics of operations, such as vehicles, containers, handling operations, logistics management and optimisation. All chapters are written by field specialists, and the volume includes additional chapters on economics, law and the environment to put the practical topics into context. It presents a balanced textbook for postgraduate students and also a reference text for those in industry or the public sector involved in the

planning of intermodal freight transport.

WOW and SkyTeam Cargo: An In-depth Analysis of Strategic Alliances for Air Cargo Carriers and The Impact on Cargo Airlines' Operations and Success - Florian Smeritschnig 2013-08

In the airline industry, the formation of highly integrated strategic alliances started during the 1990's. Thereby, Star Alliance became the first global player when passenger airlines faced deregulation, and wanted to support their growth and expansion in international markets. For cargo companies, this type of integration came around later, namely in the beginning of 2000. As a result of the increased co-operation, major alliances were formed with the launch of SkyTeam Cargo and WOW. In the dawn of the new century, these alliances should lay the cornerstone for the achievement of a long term success through synergy effects, and higher competitiveness in terms of the individual and the group. A decade later, WOW and SkyTeam Cargo have evolved in different directions but, not all members or ex-members are pleased about the results. Strategic alliances in air transport have been studied widely but, most of the recent publications only cover the passenger side in this business. There are a lot of information and statements about the benefits that alliances can bring to its members. But, the review of the literature shows that research is very sparse when it comes down to the evaluation of the actual impact of alliance integration on air cargo carriers' standing. The objective of this book is to analyze and interpret the impact of a strategic alliance on cargo airlines' revenue-tonne-kilometres key figures (provided by Airline Business 1998-2010), and market share developments. The author's aim is on the one hand, to answer the question if air cargo operators did profit from alliance integration, and on the other hand, to give the reasons for this development. Besides, the book gives an overview about the market's environment, the characteristics of air freight, and the history of WOW and SkyTeam Cargo. Further, the additional questions are discussed in detail:

- How did carriers react to the challenges and opportunities in the market?
- What are the main benefits or disadvantages for alliance members?
- What major challenges do (prospective) members face in an alliance?
- What are the core arrangements and prerequisites for alliance integration?
- Is there a common success, are there stability factors and why do alliances fail?
- What alternatives are there to alliance formation

Air Cargo and Logistics - Rico Merkert 2018-09

Air Cargo and Logistics: Classics and Contemporary Practice presents a thorough and detailed analysis of the most relevant research and literature related to the industry. The book examines critical management practices and business models, synthesizing findings from more than 40 journal articles. Topics reflect traditional management issues, such as pricing and economic deregulation, along with more contemporary issues, such as the environment, sustainability, security

and air cargo alliances. Each chapter breaks down studied literature and research, reviewing key concepts and their application to today's air cargo industry and presenting key terms, models and case studies related to the research. The book is ideal for readers of all levels, no matter their career level or stage of education. Researchers, academics, and practitioners, including air cargo airline employees, freight forwarders, integrators, consultants, financiers, airport management, and policymakers will find the comprehensive review of research a valuable reference on the topic. Focuses on air cargo and logistics and issues facing the industry Provides a detailed analysis on the leading research and literature on air cargo, making it accessible to researchers, academics, students and industry practitioners Features a comprehensive review of the key concepts, terms, selective case studies and models covered in leading air cargo research Presents insights into recent air cargo trends related to concepts featured in foundational literature and research Explains, in layman's terms, how key concepts can be applied to the industry's current challenges

**Air Transport and Regional Development Case Studies** - Ann Graham 2022-08

This book is one of three inter-connected books related to a four-year European Cooperation in Science and Technology (COST) Action established in 2015. The Action, called Air Transport and Regional Development (ATARD), aimed to promote a better understanding of how the air transport related problems of core regions and remote regions should be addressed in order to enhance both economic competitiveness and social cohesion in Europe. This book focuses on case studies in Europe related to air transport and regional development. It is divided into four geographical regions after a general chapter that compares regional air transport connectivity between remote and central areas in Europe. The first region is Northern and Western Northern Europe (case studies related specifically to Norway, Finland, the United Kingdom, and Ireland); the second is Central and Eastern Europe, (Bulgaria, Bosnia and Herzegovina, and Poland); the third is Central Western Europe (Belgium and Switzerland); and finally, the fourth is Southern Europe (Portugal, Spain, and Italy). There is no other single source publication that currently covers this topic area in such a comprehensive manner by considering so many countries. The book aims at becoming a major reference on the topic, drawing from experienced researchers in the field, covering the diverse experience and knowledge of the members of the COST Action. The book will appeal to academics, practitioners, and policymakers who have a particular interest in acquiring detailed comparative knowledge and understanding of air transport and regional development in many different European countries. Together with the other two books (Air Transport and Regional Development Methodologies and Air Transport and Regional Development Policies), it fills a much-needed gap in the literature.