Air Traffic Control: Human Performance Factors

Anne R. Isaac and Bert Ruitenberg

Air Traffic Control Human Performance Factors

R Bogdan

Air Traffic Control Human Performance Factors:

Air Traffic Control: Human Performance Factors Anne R. Isaac,Bert Ruitenberg,2017-03-02 From the Foreword by Captain Daniel Maurino ICAO Air Traffic Control will remain a technology intensive system People controllers must harmoniously interact with technology to contribute to achieve the aviation system s goals of safe and efficient transportation of passengers and cargo This book considers human error and human factors from a contemporary and operational perspective and discusses the parts as well as the whole I hope you enjoy reading it as much as I did The motivation for writing this book comes from the author s long standing belief that the needs of Air Traffic Service personnel are inadequately represented in the aviation literature There are few references to air traffic control in many of the books written for pilots and about pilots and this is also observed at the main international conferences In line with the ICAO syllabus for human factors training for air traffic controllers the book covers the main issues in air traffic control with regard to human performance physiology including stress fatigue and shift work problems psychology with emphasis on human error and its management social psychology including issues of communication and working in teams the environment including ergonomic principles and working with new technologies and hardware and software issues including the development of documentation and procedures and a study of the changes brought about by advanced technologies Throughout the text there are actual examples taken from the air traffic control environment to illustrate the issues discussed A full bibliography is included for those who want to read beyond these issues It has been written for all in air traffic services from ab initio to the boardroom it is important that the men and women in senior management positions have some knowledge and awareness of the fundamental problems that limit and enhance human performance **Flight to the Future** National Research Council,Division of Behavioral and Social Sciences and Education,Board on Human-Systems Integration,Panel on Human Factors in Air Traffic Control Automation,1997-02-28 Despite the strong safety record of the national airspace system serious disruptions occasionally occur often as a result of outdated or failed equipment Under these circumstances safety relies on the skills of the controllers and pilots and on reducing the number of aircraft in the air The current and growing pressures to increase the capacity to handle a greater number of flights has led to a call for faster and more powerful equipment and for equipment that can take over some of the tasks now being performed by humans Increasing the role of automation in air traffic control may provide a more efficient system but will human controllers be able to effectively take over when problems occur This comprehensive volume provides a baseline of knowledge about the capabilities and limitations of humans relative to the variety of functions performed in air traffic control It focuses on balancing safety with the expeditious flow of air traffic identifying lessons from past air accidents The book discusses The function of the national airspace system and the procedures for hiring training and evaluating controllers Decisionmaking memory alertness vigilance sleep patterns during shift work communication and other factors in controllers performance

Research on automation and human factors in air traffic control and incorporation of findings into the system The Federal Aviation Administration s management of the air traffic control system and its dual mandate to promote safety and the development of air commerce This book also offers recommendations for evaluation the human role in automated air traffic control systems and for managing the introduction of automation into current facilities and operations It will be of interest to anyone concerned about air safety policymakers regulators air traffic managers and controllers airline officials and passenger advocates **Human Factors in Air Traffic Control** Mark W. Smolensky,Earl S. Stein,1998-03-18 The study of human factors has progressed greatly in the past 10 years particularly with regard to the literature available in applied areas The authors of this text focus on the most important aspects of this literature the increasing concern over the deregulation of airlines and the increase in aviation accidents The book covers general system safety human perception information processing and cognitive load capacity during air traffic control performance as well as team coordination selection and training of personnel work station and software design and communication issues **Human Factors Impacts in Air Traffic Management** Mark Rodgers,2017-03-02 In research and application of Human Factors in Air Traffic Management ATM systems design development and operation there remains a lack of clarity regarding the range and integration of activities associated with the need for greater attention to issues such as human error interface design and teamwork especially in systems with increased levels of automation This book seeks to redress this situation by presenting case studies of human factors applications in which there is demonstrable success in terms of improvement in operational systems Individual examples are used to outline how each human factors study evolved what it entailed how it was resourced and how the results contributed to operational performance Case studies include training methods human error team resource management situation assessment terminal automation replacement systems collaborative decision making to improve the effectiveness of traffic flow management and the role of human factors in ATM *Flight to the Future* Panel on Human Factors in Air Traffic Control Automation,Board on Human-Systems Integration,Division of Behavioral and Social Sciences and Education,National Research Council,1997-02-11 Despite the strong safety record of the national airspace system serious disruptions occasionally occur often as a result of outdated or failed equipment Under these circumstances safety relies on the skills of the controllers and pilots and on reducing the number of aircraft in the air The current and growing pressures to increase the capacity to handle a greater number of flights has led to a call for faster and more powerful equipment and for equipment that can take over some of the tasks now being performed by humans Increasing the role of automation in air traffic control may provide a more efficient system but will human controllers be able to effectively take over when problems occur This comprehensive volume provides a baseline of knowledge about the capabilities and limitations of humans relative to the variety of functions performed in air traffic control It focuses on balancing safety with the expeditious flow of air traffic identifying lessons from past air accidents The book discusses The function of the national

airspace system and the procedures for hiring training and evaluating controllers Decisionmaking memory alertness vigilance sleep patterns during shift work communication and other factors in controllers performance Research on automation and human factors in air traffic control and incorporation of findings into the system The Federal Aviation Administration s management of the air traffic control system and its dual mandate to promote safety and the development of air commerce This book also offers recommendations for evaluation the human role in automated air traffic control systems and for managing the introduction of automation into current facilities and operations It will be of interest to anyone concerned about air safety policymakers regulators air traffic managers and controllers airline officials and passenger advocates   The Future of Air Traffic Control Panel on Human Factors in Air Traffic Control Automation,Board on Human-Systems Integration,Division of Behavioral and Social Sciences and Education,National Research Council,1998-02-09 Automation in air traffic control may increase efficiency but it also raises questions about adequate human control over automated systems Following on the panel s first volume on air traffic control automation Flight to the Future NRC 1997 this book focuses on the interaction of pilots and air traffic controllers with a growing network of automated functions in the airspace system The panel offers recommendations for development of human centered automation addressing key areas such as providing levels of automation that are appropriate to levels of risk examining procedures for recovery from emergencies free flight versus ground based authority and more The book explores ways in which technology can build on human strengths and compensate for human vulnerabilities minimizing both mistrust of automation and complacency about its abilities The panel presents an overview of emerging technologies and trends toward automation within the national airspace system in areas such as global positioning and other aspects of surveillance flight information provided to pilots an controllers collision avoidance strategic long term planning and systems for training and maintenance The book examines how to achieve better integration of research and development including the importance of user involvement in air traffic control It also discusses how to harmonize the wide range of functions in the national airspace system with a detailed review of the free flight initiative   Human Factors In Air Traffic Control V. D. Hopkin,2017-11-22 This text discusses the skills and abilities that air traffic controllers need Its approach is international as air traffic control practices throughout the world have to be mutually compatible and agreed   *Advances in Human Aspects of Aviation* Steven J. Landry,2012-07-11 Since the very earliest years of aviation it was clear that human factors were critical to the success and safety of the system As aviation has matured the system has become extremely complex Bringing together the most recent human factors work in the aviation domain Advances in Human Aspects of Aviation covers the design of aircrafts for the   **Handbook of Aviation Human Factors** John A. Wise,V. David Hopkin,Daniel J. Garland,2016-04-19 A complete examination of issues and concepts relating to human factors in simulation this book covers theory and application in space ships submarines naval aviation and commercial aviation The authors examine issues of simulation and their effect on the validity and functionality of simulators

as a training device The chapters contain in d   *Human Factors in the Design and Evaluation of Air Traffic Control Systems* Kim M. Cardosi,Elizabeth D. Murphy,1995   **Human Factors in Aviation** Eduardo Salas,Dan Maurino,2010-01-30 Fully updated and expanded the second edition of Human Factors in Aviation serves the needs of the widespread aviation community students engineers scientists pilots managers and government personnel Offering a comprehensive overview the volume covers topics such as pilot performance human factors in aircraft design vehicles and systems and NextGen issues The need for an up to date scienti cally rigorous overview is underscored by the frequency with which human factors crew error cause aviation accidents pervasiveness of human error in safety breakdowns Technical and communication advances diminishing airspace and the priority of aviation safety all contribute to the generation of new human factors problems and the more extensive range of solutions Now more than ever a solid foundation from which to begin addressing these issues is needed New edition thoroughly updated with 50% new material offering full coverage of NexGen and other modern issues Liberal use of case examples exposes students to real world examples of dangers and solutions Website with study questions and image collection   **Handbook of Human Factors in Air Transportation Systems** Steven James Landry,2017-11-22 One of the primary applications of human factors engineering is in the aviation domain and the importance of human factors has never been greater as U S and European authorities seek to modernize the air transportation system through the introduction of advanced automation This handbook provides regulators practitioners researchers and educators a comprehensive resource for understanding and applying human factors to air transportation   *Human Factors in Aviation and Aerospace* Joseph Keebler,Elizabeth H. Lazzara,Katherine Wilson,Elizabeth L. Blickensderfer,2022-10-26 Doody s Core Titles 2024 in Occupational and Environmental Medicine This third edition of Human Factors in Aviation and Aerospace is a fully updated and expanded version of the highly successful second edition Written for the widespread aviation community including students engineers scientists pilots managers government personnel etc this edition continues to offer a comprehensive overview including pilot performance human factors in aircraft design and vehicles and systems With new editors this edition adds chapters on aviator attention and perception accident investigations automated systems in civil transport airplanes and aerospace Multicontributed by leading professionals in the field this book is the ultimate resource for anyone in the aviation and aerospace industries Uses real world case examples of dangers and solutions Includes a new chapter on spaceflight human factors and decision making Examines future directions for automated systems in two new separate chapters   **Human Performance on the Flight Deck** Don Harris,2016-12-05 Taking an integrated systems approach to dealing exclusively with the human performance issues encountered 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 within the book It also affirms

the upside of human factors in aviation the positive contribution that it can make to the industry and avoids placing undue emphasis on when the human component fails The book is divided into four main parts Part one describes the underpinning science base with chapters on human information processing workload situation awareness decision making error and individual differences Part two of the book looks at the human in the system containing chapters on pilot selection simulation and training stress fatigue and alcohol and environmental stressors Part three takes a closer look at the machine the aircraft beginning with an examination of flight deck display design followed by chapters on aircraft control flight deck automation and HCI on the flight deck Part four completes the volume with a consideration of safety management issues both on the flight deck and across the airline the final chapter in this section looks at human factors for incident and accident investigation The book is written for professionals within the aviation industry both on the flight deck and elsewhere for post graduate students and for researchers working in the area   *Human Factors Impacts in Air Traffic Management* Barry Kirwan,Mark Rodgers,Dirk Schäfer,2005 In research and application of Human Factors in Air Traffic Management ATM systems design development and operation there remains a lack of clarity regarding the range and integration of activities associated with the need for greater attention to issues such as human error interface design and teamwork especially in systems with increased levels of automation This book seeks to redress this situation by presenting case studies of human factors applications in which there is demonstrable success in terms of improvement in operational systems Individual examples are used to outline how each human factors study evolved what it entailed how it was resourced and how the results contributed to operational performance Case studies include training methods human error team resource management situation assessment terminal automation replacement systems collaborative decision making to improve the effectiveness of traffic flow management and the role of human factors in ATM   **Automation and Systems Issues in Air Traffic Control** John A. Wise,V. David Hopkin,Marvin L. Smith,2012-12-06 In recent years increases in the amount and changes in the distribution of air traffic have been very dramatic and are continuing The need for changes in the current air traffic systems is equally clear While automation is generally accepted as a method of improving system safety and performance high levels of automation in complex human machine systems can have a negative effect on total system performance and have been identified as contributing factors in many accidents and failures Those responsible for designing the advanced air traffic control systems to be implemented throughout the alliance during the next decade need to be aware of recent progress concerning the most effective application of automation and artificial intelligence in human computer systems This volume gives the proceedings of the NATO Advanced Study Institute held in Maratea Italy June 18 29 1990 at which these issues were discussed   Human Factors Guidelines for Air Traffic Management (ATM) Systems ,2000

Contemporary Issues in Human Factors and Aviation Safety Helen C. Muir,Don Harris,2017-03-02 Every issue of Ashgate s Human Factors and Aerospace Safety An International Journal publishes an invited critical review of a key area

from a widely respected researcher To celebrate a successful first three years of the journal and to make these papers available to a wider audience they have been collated here into a single volume The book is divided into three sections with articles addressing safety issues in flight deck design aviation operations and training and air traffic management These articles describe the state of current research within a practical context and present a potential future research agenda Contemporary Issues in Human Factors and Aviation Safety will appeal to both professionals and researchers in aviation and associated industries who are interested in learning more about current issues in flight safety *Aviation Psychology and Human Factors* Monica Martinussen,David R. Hunter,2009-09-28 While it is true that fortune favors the prepared mind in the field of aviation it may be equally true that misfortune often punishes an unprepared mind To be fully prepared pilots must have comprehensive knowledge of weather aerodynamics propulsion navigation and all the other technical disciplines However they must also have a comprehensive understanding of the component that is simultaneously the most fragile and most resilient the most unreliable and the most adaptable the human being Aviation Psychology and Human Factors explores the application of psychological principles and techniques to the specific situations and problems of aviation It provides a complete overview of the role of psychology in the field of aviation The authors address the contribution of psychology in the design of aviation systems the selection and training of pilots the psychological characteristics of pilots that may relate to aviation safety and to the behavior of passengers They cover key concepts of psychological research and data analysis at a depth that fosters a greater appreciation of how these tools are used in the development of new psychological knowledge A keener understanding of aviation psychology will better prepare pilots for the demands that aviation will make While many books cover this subject for psychologists very few if any present the material to pilots With balanced coverage that makes the material accessible to both this book makes pilots aware of the positive impact psychology and its application can have on improving aviation operations providing specific information that pilots can use in their daily operations It gives psychologists a better understanding of how their discipline is applied to aviation while giving pilots the tools to better evaluate and implement future products in the field of aviation psychology *Human Factors in Certification* John A. Wise,V. David Hopkin,2000-08-01 Much has happened to certification and to human factors during the past few years In this volume the editors and other specialists discuss the topic of human factors applied to certification They focus on core topics in the certification process that have emerged in the study of product certification in high tech industries The editors purpose is to document advances in the study of certification processes defined largely by the 1993 international conference on the application of human factors principles to the study of product certification in man machine systems Although the book focuses mostly on certification in large man machine systems such as aeronautics its principles also apply to other high tech industries such as medicine and computers An introductory paper and a group of papers presenting propositions and philosophies about human factors contribute to a framework for human factors certification The papers in this volume adopt

a more direct approach to certification activities deal with aspects of human machine integration address topics that should feature in any established human factors certification of advanced aviation systems use ideas that already exist in aviation as a basis for discussing certification issues consider issues that arise in the certification of complex future systems and describe some current characteristics of human factors as a discipline that would influence its application to certification

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