

# **FREE ICAO DOC 9683 HUMAN FACTORS TRAINING MANUAL**

## **Human Factors Training Manual**

Since the 1950s, a number of specialized books dealing with human factors has been published, but very little in aviation. Human Factors in Aviation is the first comprehensive review of contemporary applications of human factors research to aviation. A "must" for aviation professionals, equipment and systems designers, pilots, and managers--with emphasis on definition and solution of specific problems. General areas of human cognition and perception, systems theory, and safety are approached through specific topics in aviation--behavioral analysis of pilot performance, cockpit automation, advancing display and control technology, and training methods.

## **Human Factors Guidelines for Aircraft Maintenance Manual**

Derived from the renowned multi-volume International Encyclopaedia of Laws, this practical analysis of the structure, competence, and management of International Civil Aviation Organization (ICAO) provides substantial and readily accessible information for lawyers, academics, and policymakers likely to have dealings with its activities and data. No other book gives such a clear, uncomplicated description of the organization's role, its rules and how they are applied, its place in the framework of international law, or its relations with other organizations. The monograph proceeds logically from the organization's genesis and historical development to the structure of its membership, its various organs and their mandates, its role in intergovernmental cooperation, and its interaction with decisions taken at the national level. Its competence, its financial management, and the nature and applicability of its data and publications are fully described. Systematic in presentation, this valuable time-saving resource offers the quickest, easiest way to acquire a sound understanding of the workings of International Civil Aviation Organization (ICAO) for all interested parties. Students and teachers of international law will find it especially valuable as an essential component of the rapidly growing and changing global legal milieu.

## **Human Factors in Aviation**

This work covers the main aspects of human factors in aviation training. It sets out the underlying ingredients of instruction and evaluation, and deals with human factors instruction in airlines, air traffic control and aviation medicine.

## **International Civil Aviation Organization (ICAO)**

Safety Management and Human Factors Proceedings of the 13th International Conference on Applied Human Factors and Ergonomics (AHFE 2022), July 24–28, 2022, New York, USA

## **Designing Instruction for Human Factors Training in Aviation**

This book describes various manifestations of human factors when interacting with potentially dangerous technical systems: airplanes, launch vehicles and spaceships, nuclear power plants, energy-saturated ground vehicles and infrastructure facilities. The idea of the book arose from the desire to find a common ground between industries that are important for safety. Their similarity lies, in addition to the technological

advancement of products and solutions, in equally high safety requirements, in particular taking into account the influence of human factor. Thus, it is of relevance to analyze an impact of human factor in the context of safety. The matter is rather complex: on the one hand humans manage technical systems, on the other hand human errors, negligence or evil intentions can turn the system into a threat with disastrous consequences. However, human interaction with any technical system begins earlier – in the design stage. In this stage, designer, being creator of the system, must ensure a safe operation and take into consideration possible risks, including those caused by human factors itself. The book is interdisciplinary in nature and intended mainly for designers of technical systems, aiming to assist the specialists in understanding the issues of human participation in life cycle of these systems. The examples given are intended to benefit from experiences of not one, but a number of industries.

## **Safety Management and Human Factors**

Two parallel investigations take place after every aviation accident: one technical, one judicial. The former must be conducted with the sole intention of making safety recommendations to prevent the recurrence of similar accidents. The judicial investigation, however, has the intention of identifying those parties that have been at fault and to apportion blameworthiness for criminal and civil liability. Consequently, this results in a predicament for those parties that have been identified as having played a role in the accident, a dilemma between not supplying information aimed at enhancing safety and preventing future accidents and, on the other hand, supplying such information which may possibly be used against them in subsequent criminal prosecution. The situation is compounded by inconsistent approaches between different legal systems; aviation professionals may find themselves faced with criminal charges in one country but not in another, and they may also be unsure as to whether statements given during the technical investigation could be used against them in a court of law. Aviation safety is, to a large extent, built upon the trust placed by pilots, ATCOs and other aviation professionals in the process of accident investigation. This book examines the growing trend to criminalize these same people following an accident investigation and considers the implications this has for aviation safety.

## **Human Factors and Design**

Practical Human Factors for Pilots bridges the divide between human factors research and one of the key industries that this research is meant to benefit—civil aviation. Human factors are now recognized as being at the core of aviation safety and the training syllabus that flight crew trainees have to follow reflects that. This book will help student pilots pass exams in human performance and limitations, successfully undergo multi-crew cooperation training and crew resource management (CRM) training, and prepare them for assessment in non-technical skills during operator and license proficiency checks in the simulator, and during line checks when operating flights. Each chapter begins with an explanation of the relevant science behind that particular subject, along with mini-case studies that demonstrate its relevance to commercial flight operations. Of particular focus are practical tools and techniques that students can learn in order to improve their performance as well as "training tips" for the instructor. Provides practical, evidence-based guidance on issues often at the root of aircraft accidents Uses international regulatory material Includes concepts and theories that have practical relevance to flight operations Covers relevant topics in a step-by-step manner, describing how they apply to flight operations Demonstrates how human decision-making has been implicated in air accidents and equips the reader with tools to mitigate these risks Gives instructors a reliable knowledge base on which to design and deliver effective training Summarizes the current state of human factors, training, and assessment

## **Flying in the Face of Criminalization**

The late Captain Frank H Hawkins FRAes, M Phil, was Human Factors Consultant to KLM, for whom he had flown for over 30 years as line captain and R & D pilot, designing the flight decks for all KLM aircraft from the Viscount to the Boeing 747. In this period he developed and applied his specialization in Human

Factors. His perception of lack of knowledge of Human Factors and its disastrous consequences led him to initiate both an annual course on Human Factors in Transport Aircraft Operation at Loughborough and Aston Universities, and the KLM Human Factors Awareness Course (KHUFAC). A consultant member of SAE S-7 committee, he was also a member of the Human Factors Society and a Liveryman of the Guild of Air Pilots. He was keynote speaker at the ICAO Human Factors Seminar held in St Petersburg, Russia in April 1990. About the Editor The late Captain Harry W Orlady was an Aviation Human Factors Consultant and a former Senior Research Scientist for the Aviation Safety Reporting System (ASRS); he also worked with NASA/Ames, with private research firms and the FAA in its certification of the Boeing 747-400 and the McDonnell-Douglas MK-11. As a pilot with United Airlines he flew 10 types of aircraft ranging from the DC-3 to the Boeing 747. He conducted studies in ground and flight training, Human Factors, aviation safety and aeromedical fields, and received several major awards and presented nearly 100 papers or lectures. He was an elected fellow of the Aerospace Medical Association; a member of the Human Factors Society, of ICE Flight Safety and Human Factors Study Group, and the SAE Human Behavioural Technology and G-10 Committees.

## **Practical Human Factors for Pilots**

This book offers an extraordinary wealth of information, from the ground up, of the law governing and regulating air transport today, with a strong emphasis on international aviation. A team of distinguished authors in the field of aviation law provide a cogent synthesis from which sound legal opinions and strategies of legal action may be confidently built. Among the many topics here in depth are the following: definition and classification of airspace; distinction between civil and state aircraft; air navigation and air traffic control services; airport charges and overflight charges; structure of ICAO; standard-setting functions and audit functions of ICAO; functions of the International Air Transport Association (IATA); policy and effects of deregulation and liberalization of air transport policy; the International Registry for Aircraft Equipment; air carrier liability regimes and claims procedure; measures to combat aviation terrorism, air piracy and sabotage; and the Open Skies Agreements. This publication cites significant legislation and court rulings, including from the United States and the European Union, where far-reaching measures on market access, competition and passenger rights have set trends for other regions of the world. The special case of Latin America has a chapter to itself. At a time when commercial aircraft have been used as lethal weapons for the first time, aviation law finds itself in the front line of responsibility for maintaining global aviation security.

## **Human Factors in Flight**

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

case examples exposes readers to real-world examples of dangers and solutions

## **International and EU Aviation Law**

This book provides an overview of the aviation sector by focusing on all major aspects embedded in the environment (subsystems) and the market of aviation. The book explains the linkages between subsystems politics, society, technology, economy, environment, and regulation, and how these subsystems influence each other and the market. The book starts by describing the aviation system, then focuses on the supply side and the demand side of the system and in a final part focuses on steering and controlling the system of aviation from a managerial, economic, and regulatory perspective. Examples and case studies of airports, airlines, and the production industry in each chapter support the application-oriented approach. The summary and review questions help the reader to understand the focus and main messages of each chapter. Students and researchers in business administration with a focus on aviation, as well as professionals in the industry looking to refresh or broaden their knowledge in the field will benefit from this book.

## **Human Factors in Aviation**

Safety management and human factors disciplines are often regarded as subjective and nebulous. This perhaps stems from a variety of, sometimes disparate, activities in the realms of education, industry and research. Aviation is one of the safety-critical industries that has led the development of safety systems and human factors. However, in recent years, safety management and human factors are seen to be progressing well in the road, rail and the medical arena. Multimodal Safety Management and Human Factors is a wide-ranging compendium of contemporary approaches in the aviation, road, rail and medical domains. It brings together 28 chapters from both the academic and professional worlds that focus on applications, tools and strategies in safety management and human factors. It is a wellspring of the practical rather than the theoretical. Safety scientists, human factors industry practitioners, change management advocates, educators and students will find this book extremely relevant and challenging.

## **Aviation Systems**

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.

## **Human Factors for Aviation**

With the emergence of smart technology and automated systems in today's world, artificial intelligence (AI) is being incorporated into an array of professions. The aviation and aerospace industry, specifically, is a field that has seen the successful implementation of early stages of automation in daily flight operations through flight management systems and autopilot. However, the effectiveness of aviation systems and the provision of flight safety still depend primarily upon the reliability of aviation specialists and human decision making. The Handbook of Research on Artificial Intelligence Applications in the Aviation and Aerospace Industries is a pivotal reference source that explores best practices for AI implementation in aviation to enhance security and the ability to learn, improve, and predict. While highlighting topics such as computer-aided design, automated systems, and human factors, this publication explores the enhancement of global aviation security as well as the methods of modern information systems in the aeronautics industry. This book is ideally designed for pilots, scientists, engineers, aviation operators, air crash investigators, teachers, academicians, researchers, and students seeking current research on the application of AI in the field of aviation.

## **Multimodal Safety Management and Human Factors**

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

## **Human Factors In Air Traffic Control**

This book constitutes the refereed proceedings of the 18th International Conference on Engineering Psychology and Cognitive Ergonomics, EPCE 2021, held as part of the 23rd International Conference, HCI International 2021, held as a virtual event, in July 2021. The total of 1276 papers and 241 posters included in the 39 HCII 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions. EPCE 2021 includes a total of 34 papers; they were organized in topical sections named: cognitive psychology in aviation; cognitive psychology in air traffic control; studies on cognitive processes; human error and human performance; and cognition and design.

## **Handbook of Research on Artificial Intelligence Applications in the Aviation and Aerospace Industries**

On 20 August 2008, Spanair flight JKK5022, a McDonnell Douglas DC-9-82 departed Madrid Barajas Airport on its way to Gran Canaria Airport. During take-off the aircraft crashed, due to pilot errors, near the end of runway 36L, killing 154 of the 172 people on board.

## **Human Performance**

The 13th International Conference on Human-Computer Interaction, HCI International 2009, was held in San Diego, California, USA, July 19-24, 2009, jointly with the Symposium on Human Interface (Japan) 2009, the 8th International Conference on Engineering Psychology and Cognitive Ergonomics, the 5th International Conference on Universal Access in Human-Computer Interaction, the Third International Conference on Virtual and Mixed Reality, the Third International Conference on Internationalization, Design and Global Development, the Third International Conference on Online Communities and Social Computing, the 5th International Conference on Assisted Cognition, the Second International Conference on Digital Human Modeling, and the First International Conference on Human Centered Design. A total of 4,348 individuals from academia, research institutes, industry and governmental agencies from 73 countries submitted contributions, and 1,397 papers that were judged to be of high scientific quality were included in the program. These papers address the latest research and development efforts and highlight the human aspects of the design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas.

## **Engineering Psychology and Cognitive Ergonomics**

Proceedings of the 14th International Conference on Applied Human Factors and Ergonomics (AHFE 2023), July 20-24, 2023, San Francisco, USA

## **AIR CRASH INVESTIGATIONS: BURNED ALIVE IN MADRID, The Crash of Spanair Flight JKK5022**

Human Factors (HF) are involved in most aviation occurrences. To advance aviation safety, we must

improve our ability to identify the involvement of HF in accidents and incidents. This report: provides investigators and investigation authorities, civil aviation regulatory authorities, corp. mgmt., and other aviation personnel with info. on the need for and purpose of the investigation of HF; outlines a methodology for investigating HF in aircraft accidents and incidents; and describes how the information gathered should be reported. The focus is on the events which led up to the occurrence and not on post-accident events, such as search and rescue and survivability.

## **Human-Computer Interaction. Interacting in Various Application Domains**

Learn about the latest key applied psychological methods and techniques in aviation: Expert guidance from academia and industry Based on the latest research Practice oriented More about the book This collection of chapters on the latest methods and tools for applied research in aviation psychology guides the diverse range of professionals working within aviation on how to adapt flexibly to the continuously evolving requirements of the aeronautical landscape. Experts from the industry and academia explore selected applications, ranging from aviation system engineering to bridging the gap between research and industrialization, safety culture, training and examination. Psychological tools are explored, including designing biocybernetic adaptive systems, predictive automation, and support for designing the human role in future human-machine teaming concepts. Special chapters are dedicated to spatial disorientation, reactivity, stress, eye-tracking, electrodermal and cardiac assessment under the influence of G forces. This is essential reading for aviation psychologists, human factors practitioners, engineers, designers, operational specialists, students and researchers in academia, industry, and government. The practitioners and researchers working in other safety critical domains (e.g., medicine, automotive) will also find the handbook valuable. Members of the European Association for Aviation Psychology (EAAP) and the Austrian Aviation Psychology Association (AAPA) will get a discount on purchase orders of the book. Please contact your society to get more information!

## **Human-Centered Aerospace Systems and Sustainability Applications**

In this educational yet entertaining text, Jeff Koonce draws on his 44 years of pilot experience and 31 years as a professor of psychology and human factors engineering in addressing the questions of how to apply sound human factors principles to the training of pilots and to one's personal flying. The author discusses principles of human f

## **Investigation of Human Factors in Accidents and Incidents**

This book provides an in-depth analysis of human failure and its various forms and root causes. The analysis is developed through real aviation accidents and incidents and the deriving lessons learned. Features: Employs accumulated experience, and the scientific and research point of view, and recorded aviation accidents and incidents from the daily working environment Provides lessons learned and integrates the existing regulations into the human factors discipline Highlights the responsibility concerns and raises the accountability issues deriving from the engineers' profession by concisely distinguishing human failure types Suggests a new approach in human factors training in order to meet current and future challenges imposed on aviation maintenance Offers a holistic approach in human factors aircraft maintenance Human Factors in Aircraft Maintenance is comprehensive, easy to read, and can be used as both a training and a reference guide for operators, regulators, auditors, researchers, academics, and aviation enthusiasts. It presents the opportunity for aircraft engineers, aviation safety officers, and psychologists to rethink their current training programs and examine the pros and cons of employing this new approach.

## **Human Factors Guidelines for Safety Audits Manual**

This book is both a repertory guide to the Convention on International Civil Aviation (Chicago Convention) as well as a legal analysis of the provisions of the treaty. It traces action taken by the ICAO Assembly and the Council in the implementation of the Convention from the first ICAO Assembly in 1947 until 2012. Above

all, the book offers a commentary on the functional and moral fabric of the Chicago Convention, which is not only a multilateral legal instrument that sets out basic principles of air navigation and air transport, but also serves as a moral compass that brings the people of the world together. The teleological nature of the Chicago Convention is reflected from the outset – from its Preamble which sets the tone and philosophy of the Convention – that aviation builds friendship and understanding among all people, to its technical provisions that range from rules of the air to landing at airports and customs and immigration procedures. The book effectively demonstrates the Aristotelian principle – that rules make people good by forming habits in them. Standardization, or in other words, compliance, is the driver of the Convention that keeps aviation safe, regular, efficient and economical. To that end, this book traces and details the sustained relevance of the Chicago Convention and the efforts of ICAO and the international aviation community towards keeping air transport on track and ready for its future exponential growth, both in letter and in spirit. \u200b

## **Aviation Psychology**

Air traffic controllers need advanced information and automated systems to provide a safe environment for everyone traveling by plane. One of the primary challenges in developing training for automated systems is to determine how much a trainee will need to know about the underlying technologies to use automation safely and efficiently. To ensure safety and success, task analysis techniques should be used as the basis of the design for training in automated systems in the aviation and aerospace industries. *Automated Systems in the Aviation and Aerospace Industries* is a pivotal reference source that provides vital research on the application of underlying technologies used to enforce automation safety and efficiency. While highlighting topics such as expert systems, text mining, and human-machine interface, this publication explores the concept of constructing navigation algorithms, based on the use of video information and the methods of the estimation of the availability and accuracy parameters of satellite navigation. This book is ideal for aviation professionals, researchers, and managers seeking current research on information technology used to reduce the risk involved in aviation.

## **Human Factors in the Training of Pilots**

The volume comprises proceedings of the 10th International Conference on Recent Advances in Civil Aviation. The contents focus on air traffic control and management, quality control and reliability improvement of radio equipment and avionics, designing and testing aircraft assemblies and mechanisms, reliability improvement of aircraft management systems, aviation enterprise management, etc. There is also emphasis on the current problems and prospects for development of unmanned aircraft systems. This volume will be beneficial to researchers, practitioners, and policy-makers alike.

## **Human Factors in Aircraft Maintenance**

In this third edition the chapters have been enhanced to reflect changes in technology and the way the air transport industry runs. Key topics that are newly addressed include low cost airline operations, security issues and EASA regulations on airports. A new chapter covering extended details about wildlife control has been added to the volume.

## **Convention on International Civil Aviation**

Proceedings of the 26th Symposium of the International Committee on Aeronautical Fatigue are a widely referenced summary of advances in aeronautical design against fatigue. This is a bi-annual event and the proceedings have been published in book form for over 35 years.

## **Automated Systems in the Aviation and Aerospace Industries**

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.

## **Proceedings of 10th International Conference on Recent Advances in Civil Aviation**

On April 15, 2002, Air China flight 129, a Boeing 767-200ER, operated by Air China, en route from Beijing, China to Busan, Korea, crashed on Mt. Dotdae, near Gimhae Airport, Busan. Of the 166 persons on board, 37 persons survived the crash, while 129 occupants were killed. The Korean Aviation Accident Investigation Board (KAAIB) determined that the probable cause of the crash was pilot error due to poor crew resource management and lost situational awareness during the circling approach of the runway. The Chinese investigation team pointed out that the Korean ATC was not fully licensed and mistakenly directed the airliner to descend to a wrong altitude and that the airport did not inform the crew of the weather conditions at the time. A contributing factor was that the airline made all announcements in Chinese and English, while most passengers were Korean.

## **Airport Design and Operation**

Employees of different labor sectors are involved in different projects and pressed to deliver results in a specific period of time, which increases their mental workload. This increase can lead to a high mental workload, which in turn leads to a decline in job performance. Therefore, strategies for managing mental workload and promoting mental health have become necessary for corporate success. *Evaluating Mental Workload for Improved Workplace Performance* is a critical scholarly book that provides comprehensive research on mental workload and the effects, both adverse and positive, that it can have on employee populations as well as strategies for decreasing or deleting it from the labor sector. Highlighting an array of topics such as psychosocial factors, critical success factors (CSF), and technostress, this book is ideal for academicians, researchers, managers, ergonomists, engineers, industrial designers, industry practitioners, and students.

## **ICAF 2011 Structural Integrity: Influence of Efficiency and Green Imperatives**

The 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

## **Risk Assessment in Air Traffic Management**

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.

## **AIR CRASH INVESTIGATIONS: DEADLY MISTAKES The Crash of Air China Flight 129**

In diesem ersten deutschsprachigen Werk zum Thema zeigt der Autor, wie Komplikationen vor, während und nach Koronarinterventionen vermieden und gehandhabt werden können. Der Facharzt (Innere Medizin und Kardiologie) und Leitende Notarzt hat ein Buch für den Einsatz in der Praxis geschrieben und sich dabei an den Leitlinien der Deutschen Gesellschaft für Kardiologie orientiert.

## **Evaluating Mental Workload for Improved Workplace Performance**

The overall design and strategies that create work systems within organizations must be evaluated and analyzed in order to ensure that all structures of a company are properly harmonized. Harmonizing all aspects of a company serves to optimize workflow and support all interactions between employees, machines, and software utilized by the company. Advanced Macroergonomics and Sociotechnical Approaches for Optimal Organizational Performance provides emerging research exploring the theoretical and practical aspects of system harmonization and applications within macroergonomics. Featuring coverage on a broad range of topics such as stress-related conditions, organizational culture, and worker health, this book is ideally designed for ergonomists, human resource professionals, manufacturing engineers, industrial engineers, industrial designers, researchers, industry practitioners, research scientists, and academics seeking current research on the optimization of workflow and work systems.

## **Human Factors in Aviation and Aerospace**

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