

Boeing 737 Flight Crew Training Manual Pdf Pdf

[Boeing 737 Flight Crew Training Manual Pdf Pdf](#) - Decoding **boeing 737 flight crew training manual pdf pdf**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**boeing 737 flight crew training manual pdf pdf**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership. Right here, we have countless ebook **boeing 737 flight crew training manual pdf pdf** and collections to check out. We additionally have the funds for variant types and also type of the books to browse. The customary book, fiction, history, novel, scientific research, as skillfully as various further sorts of books are readily understandable here.

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Air Transport and Operations L. Fischer 2012 This book presents the proceedings of the joint conference held in Delft, the Netherlands inJune 2012, incorporating the 3rd International Air Transport Operations Symposium ATOS, the 3rd Association of Scientific Development in Air Traffic Management in Europe ASDASeminar, the 6th International Meeting for Aviation Products Support Processes IMPAP and the 2012Complex World Seminar. The book includes the majority of academic papers presented at the conference, and provides a wide overview of the issues currently of importance in the world of air transport.pIOS Press is an international science, technical and medical publisher *Cessna 172 Training Manual* Danielle Bruckert 2009-08-30 A Flight Information Manual for the Cessna 172, for use when learning to fly on the C172 or during type rating training, and a great reference manual for pilots who fly the aircraft. Compiled from engineering manuals, manufacturers handbooks, and the author's extensive flight experience. Provides straight forward, useful explanations of the aircraft, systems and flight operations including performance planning, with photographs, diagrams and schematics.

Human Error in Aviation R.Key Dismukes 2017-07-05 Most aviation accidents are attributed to human error, pilot error especially. Human error also greatly effects productivity and profitability. In his overview of this collection of papers, the editor points out that these facts are often misinterpreted as evidence of deficiency on the part of operators involved in accidents. Human factors research reveals a more accurate and useful perspective: The errors made by skilled human operators - such as pilots, controllers, and mechanics - are not root causes but symptoms of the way industry operates. The papers selected for this volume have strongly influenced modern thinking about why skilled experts make errors and how to make aviation error resilient.

Fly the Wing Billy Walker 2021-03-02 eBook: printed book and eBook download code "Fly the Wing" has been an indispensable comprehensive textbook on operating transport-category airplanes for more than 45 years. Pilots planning a career in aviation will find this book provides important insights not covered in other books. Written in an easy, conversational style, this useful manual progresses from ground school equipment and procedures to simulators and actual flight. Along the way, the author covers the physical, psychological, and technical preparation pilots need in order to acquire an Airline Transport Pilot (ATP) certificate while maintaining the highest standards of performance. "Fly the Wing" serves as a reference to prepare for the ATP FAA Knowledge Exam. Although not intended to replace training manuals, this book is by itself a course in advanced aviation. With clear explanations and in-depth coverage, it has been described as a "full step beyond the normal training handbook." Pilots who want additional knowledge in the fields of modern flight deck automation, high-speed aerodynamics, high-altitude flying, speed control, takeoffs, and landings in heavy, high-performance aircraft will find it in this resource. This new fourth edition includes access to additional online resources, including a flight terms glossary, printable quick reference handbooks, and numerous supporting graphics.

Controlling Pilot Error: Automation Vladimir Risukhin 2001 With up to 80% of accidents attributed to pilot error, this new series is critically important. It identifies and examines the ten top areas of concern to pilot safety. Each book contains real-life pilot stories drawn from FAA/NASA databases, valuable "save-yourself" techniques and an action agenda of preventive techniques pilots can implement to avoid risks.

Flight Stability and Automatic Control Robert C. Nelson 1998 The second edition of Flight Stability and Automatic Control presents an organized introduction to the useful and relevant topics necessary for a flight stability and controls course. Not only is this text presented at the appropriate mathematical level, it also features standard terminology and nomenclature, along with expanded coverage of classical control theory, autopilot designs, and modern control theory. Through the use of extensive examples, problems, and historical notes, author Robert Nelson develops a concise and vital text for aircraft flight stability and control or flight dynamics courses.

Crew Resource Management Training Norman Macleod 2021-05-05 The book provides a data-driven approach to real-world crew resource management (CRM) applicable to commercial pilot performance. It addresses the shift to a systems-based resilience thinking that aims to understand how worker performance provides a buffer against failure. This book will be the first to bring these ideas together. Taking a competence-based approach offers a more coherent, relevant approach to CRM. The book presents relevant, real-world examples of the concepts and outlines a change in thinking around pilot performance and data interpretation that is overdue. Airlines, pilots and aviation industry professionals will benefit from the insights into organisational design and alternative approaches to training. FEATURES Approaches CRM from a competence-based perspective Uses a systems model to bring coherence to CRM Includes a chapter on using blended learning and virtual reality to deliver CRM Features research on work/life balance, morale, pilot fatigue and link to error Operationalises 'resilience engineering' in a crew context

The Turbine Pilot's Flight Manual Gregory N. Brown 2001-10-25 Highly illustrated and clearly written, The Turbine Pilot's Flight Manual is a must have for all pilots. It offers a complete description of turbine aircraft engines and systems including turboprops and jets. Additional chapters on high-speed aerodynamics, multipilot crew coordination, wake turbulence and high altitude weather are discussed at length. The book is perfect for not only those involved in pure jet operations; but for those involved in turboprop, multipilot operations, and transition training. It is a key tool for a successful turbine aviation career.

Glider Flying Handbook Federal Aviation Administration 2011-02-11 This book-prepared by the Federal Aviation Administration-is a resource without equal for glider pilots. Covering components and systems, flight instruments, performance limitations, preflight and ground operations, launch and recovery procedures, flight maneuvers, traffic patterns, soaring weather, radio navigation, and much more, it lays out in authoritative detail the science, mechanics, and regulations that every pilot needs to know. Plus, it contains a glossary of essential terms and crystal-clear color illustrations. No one should learn to fly, or fly a glider, without this information close at hand.

Aviation and Human Factors Jose Sanchez-Alarcos 2019-06-19 Air safety is right now at a point where the chances of being killed in an aviation accident are far lower than the chances to winning a jackpot in any of the major lotteries. However, keeping or improving that performance level requires a critical analysis of some events that, despite scarce, point to structural failures in the learning process. The effect of these failures could increase soon if there is not a clear and right development path. This book tries to identify what is wrong, why there are things to fix, and some human factors principles to keep in aircraft design and operations. Features Shows, through different events, how the system learns through technology, practices, and regulations and the pitfalls of that learning process Discusses the use of information technology in safety-critical environments and why procedural knowledge is not enough Presents air safety management as a successful process, but at the same time, failures coming from technological and organizational features are shown Offers ways to improve from the human factors side by getting the right lessons from recent events **The Boeing 737 Technical Guide** Chris Brady 2021-11-14 This is an illustrated technical guide to the Boeing 737 aircraft. Containing extensive explanatory notes, facts, tips and points of interest on all aspects of this hugely successful airliner and showing its technical evolution from its early design in the 1960s through to the latest advances in the MAX. The book provides detailed descriptions of systems, internal and external components, their locations and functions, together with pilots notes and technical specifications. It is illustrated with over 500 photographs, diagrams and schematics.Chris Brady has written this book after many years developing the highly successful and informative Boeing 737 Technical Site, known throughout the world by pilots, trainers and engineers as the most authoritative open source of information freely available about the 737.

Flying Blind Peter Robison 2022-10-11 NEW YORK TIMES BUSINESS BEST SELLER • A suspenseful behind-the-scenes look at the dysfunction that contributed to one of the worst tragedies in modern aviation: the 2018 and 2019 crashes of the Boeing 737 MAX. An "authoritative, gripping and finely detailed narrative that charts the decline of one of the great American companies" (New York Times Book Review), from the award-winning reporter for Bloomberg, Boeing is a century-old titan of industry. It played a major role in the early days of commercial flight, World War II bombing missions, and moon landings. The planemaker remains a cornerstone of the U.S. economy, as well as a linchpin in the awe-inspiring routine of modern air travel. But in 2018 and 2019, two crashes of the Boeing 737 MAX 8 killed 346 people. The crashes exposed a shocking pattern of malfeasance, leading to the biggest crisis in the company's history-and one of the costliest corporate scandals ever. How did things go so horribly wrong at Boeing? Flying Blind is the definitive exposé of the disasters that transfixed the world. Drawing from exclusive interviews with current and former employees of Boeing and the FAA; industry executives and analysts; and family members of the victims, it reveals how a broken corporate culture paved the way for catastrophe. It shows how in the race to beat the competition

Boeing 737 Flight Crew Training Manual Pdf Pdf upload Arnold J Paterson

and reward top executives, Boeing skimped on testing, pressured employees to meet unrealistic deadlines, and convinced regulators to put planes into service without properly equipping them or their pilots for flight. It examines how the company, once a treasured American innovator, became obsessed with the bottom line, putting shareholders over customers, employees, and communities. By Bloomberg investigative journalist Peter Robison, who covered Boeing as a beat reporter during the company's fateful merger with McDonnell Douglas in the late '90s, this is the story of a business gone wildly off course. At once riveting and disturbing, it shows how an iconic company fell prey to a win-at-all-costs mentality, threatening an industry and endangering countless lives.

Crew Factors in Flight Operations 1999

Training to Proficiency Belvoir Publications, Incorporated 1995 Close look at the critical part of the instrument rated pilot's life and ongoing training.

The Flight Instructor's Manual William K. Kershner 2002 Both experienced and newly certified flight instructors can turn to this excellent resource for information about the problems students and more advanced pilots will encounter in obtaining their CFI.

The Air Pilot's Manual 2015

Computers Take Flight: A History of NASA's Pioneering Digital Fly-By-Wire Project James E. Tomayko 2000

Engaging the Next Generation of Aviation Professionals Suzanne K. Kearns 2019-11-08 Engaging the Next Generation of Aviation Professionals is an edited volume that brings together a diverse set of academic and professional perspectives within the three themes of attracting, educating, and retaining the next generation of aviation professionals (NGAP). This compilation is the first academic work specifically targeting this critical issue. The book presents a rich variety of perspectives, academic philosophies, and real-world examples. Submissions include brief case studies, longer scholarly works from respected academics, and professional reflections from individuals who have made important contributions to their field. The book includes academic chapters that explore the topic from a more theoretical standpoint yet are accessible and understandable to a professional audience. These are complemented by both broad and specific practice examples that describe initiatives and applications occurring in the industry around the three themes. All submissions include descriptive insights, experiences, and first-hand accounts of accomplishments, intended to support the work of other professionals managing NGAP issues. This work will be valuable to anyone involved in attracting, educating, or retaining NGAP, including academics, operators, national and international regulators, and outreach coordinators, among many others.

Commercial Aviation Safety, Sixth Edition Stephen K. Cusick 2017-05-12 Up-To-Date Coverage of Every Aspect of Commercial Aviation Safety Completely revised edition to fully align with current U.S. and international regulations, this hands-on resource clearly explains the principles and practices of commercial aviation safety—from accident investigations to Safety Management Systems. Commercial Aviation Safety, Sixth Edition, delivers authoritative information on today's risk management on the ground and in the air. The book offers the latest procedures, flight technologies, and accident statistics. You will learn about new and evolving challenges, such as lasers, drones (unmanned aerial vehicles), cyberattacks, aircraft icing, and software bugs. Chapter outlines, review questions, and real-world incident examples are featured throughout. Coverage includes: • ICAO, FAA, EPA, TSA, and OSHA regulations • NTSB and ICAO accident investigation processes • Recording and reporting of safety data • U.S. and international aviation accident statistics • Accident causation models • The Human Factors Analysis and Classification System (HFACS) • Crew Resource Management (CRM) and Threat and Error Management (TEM) • Aviation Safety Reporting System (ASRS) and Flight Data Monitoring (FDM) • Aircraft and air traffic control technologies and safety systems • Airport safety, including runway incursions • Aviation security, including the threats of intentional harm and terrorism • International and U.S. Aviation Safety Management Systems

Advanced Qualification Program United States. Federal Aviation Administration 1991

Instrument Procedures Handbook: FAA-H-8261-1A (FAA Handbooks) Federal Aviation Administration

Flight Training Manual 1981

The Instrument Flight Manual William K. Kershner 1977 Behandler flyinstrumter og instrumentflyvning inden for den grundlæggende pilotuddannelse

Emergency Maneuver Training Rich Stowell 1996 Emergency Maneuver Training is a textbook for emergency maneuvers and other unusual attitude training programs as well as a source book for independent study. It explains the EMT (Emergency Maneuver Training) Program developed by the author and taught to acclaim throughout the USA. The book--enhanced by 115 illustrations--helps pilots develop an integrated understanding of the direct effects of airplane controls when applied individually and in combination; of human factors and variables introduced into the flight process by pilots; and of proper pilot procedures to remedy difficult situations encountered in flight.

Takeoff Safety Training Aid Announcement of Availability United States. Federal Aviation Administration 1994

Safety on Board Chris Brady 2020-03-16 Safety on Board is a book which pictures safety cards from over 250 different British operators together with a brief description of who they were. The book goes as far back as the earliest known safety cards in the world from Imperial Airways right up to the present day. It covers airlines, helicopter operators, air taxi, military and manufacturers. It has over 600 high quality images of safety cards, including many very rare such as all of the British Concorde prototypes; several Comets, Vanguards and all of the Known Imperial Airways, BOAC and BEA safety cards. If you are a collector of safety cards or just interested in British airline history this is the book for you.

Manual on the Approval of Training Organizations 2018

7 Weeks to 300 Sit-Ups Brett Stewart 2012-04-03 Build strength and sculpt your abs with this comprehensive guide to the sit-up. Follow the seven-week program in this book and you'll massively increase the strength and muscle tone of your core, back and obliques to such an extreme that you'll be able to do 300 consecutive sit-ups. Offering field-tested, day-by-day plans and more than thirty core-shredding exercises, this book has something for everyone: from beginners embarking on a new workout regimen to athletes looking to expand strength-training options. Packed with clear charts and helpful photos, 7 Weeks to 300 Sit-Ups tells you everything you need to know about the ultimate exercise for your core and includes: • Instructions on how to do a perfect sit-up • Easy-to-follow progressive training programs • Added challenges for extreme strengthening

Critical Risks of Different Economic Sectors Dmitry Chernov 2019-12-03 This book explores the major differences between the kinds of risk encountered in different sectors of industry - production (including agriculture) and services - and identifies the main features of accidents within different industries. Because of these differences, unique risk-mitigation measures will need to be implemented in one industry that cannot be implemented in another, leading to large managerial differences between these broad economic sectors. Based on the analysis of more than 500 disasters, accidents and incidents - around 230 cases from the production sector and around 280 cases from the service sector - the authors compare the risk response actions appropriate within different sectors, and establish when and how it is possible to generalize the experience of dealing with risks in any given industry to a wider field of economic activity. This book is mainly intended for executives, strategists, senior risk managers of enterprise-wide organizations and risk management experts engaged in academic or consulting work. By setting out clearly the sector differences in risk management, the authors aim to improve the practice of general risk assessment with regard to identifying and prioritizing risks, and of risk control with regard to planning appropriate mitigation measures.

Crew Resource Management Earl L. Wiener 2010-01-20 The new edition of Crew Resource Management continues to focus on CRM in the cockpit, but also emphasizes that the concepts and training applications provide generic guidance and lessons learned for a wide variety of "crews" in the aviation system as well as in the complex and high-risk operations of many non-aviation settings. Long considered the "Bible" in this field, much of the basic style and structure of the previous edition of Crew Resource Management is retained in the new edition. Textbooks are often heavily supplemented with or replaced entirely by course packs in advanced courses in the aviation field, as it is essential to provide students with cutting edge information from academic researchers, government agencies (FAA), pilot associations, and technology (Boeing, ALION). This edited textbook offers ideal coverage with first-hand information from each of these perspectives. Case examples, which are particularly important given the dangers

inherent in real world aviation scenarios, are liberally supplied. An image collection and test bank make this the only text on the market with ancillary support. New material includes: international and cultural aspects of CRM; design and implementation of Line-Oriented Flight Training (LOFT); airline applications beyond the cockpit; spaceflight resource management; non-aviation applications; AQP; LOSA; and special issues pertaining to low-cost airline carriers. The second edition editors offer essential breath of experience in aviation human factors from multiple perspectives (academia, government, and private enterprise) and the contributors have all been chosen as experts in their fields who represent the diversity of the research of activities and organisational experience of CRM. The only CRM text on the market offering an up-to-date synthesis of primary source material New edition thoroughly updated and revised to include major new findings, complete with discussion of the international and cultural aspects of CRM, the design and implementation of LOFT Instructor website with testbank and image collection Liberal use of case examples

Air Carrier Operations Mark J. Holt 2020 Whether a Part 121 airline or a Part 135 charter operator, a company lives or dies by its compliance with the applicable Federal Aviation Regulations, or FARs (14 CFR). Air Carrier Operations introduces students of aviation to the significant Federal Aviation Regulations affecting airline operations. Students and professionals gain an appreciation of the variety of regulatory issues involved in air carrier operations and gather the background information they need to identify and apply the relevant regulations. This book examines the many regulations governing an air carrier and focuses primarily on Part 121 air carriers; in addition, coverage includes Part 119 and relevant portions of Parts 135, 91, 61 and 25 of the Federal Aviation Regulations. The text emphasizes Instrument Flight Rules (IFR) flight operations, particularly useful to instrument-rated pilots and aircraft dispatchers. For this third edition, the authors collaborated with two seasoned FAA Licensed Flight Dispatchers, enhancing the content relevant to students preparing for the FAA Flight Dispatcher Certificate. In addition, updates and revisions throughout reflect new FAA regulatory changes to provide students, pilots, flight crews, dispatchers, and management professionals with the essential information pertinent to today's air carrier operations. Air Carrier Operations is a college-level text ideal for Air Carrier Flight Operations and Airline Operations courses, is used extensively in Airline Dispatcher Training courses, and is an excellent preparation for airline interviews and initial airline pilot training.

Low Level Wind Shear United States. Federal Aviation Administration 1979

Mastering Power BI Chandraish Sinha 2021-09-11 Expert Choice to build Business Intelligence landscapes and dashboards for Enterprises KEY FEATURES ● In-depth knowledge of Power BI, demonstrated through step-by-step exercises. ● Covers data modelling, visualization, and implementing security with complete hands-on training. ● Includes a project that simulates a realistic business environment from start to finish. DESCRIPTION Mastering Power BI covers the entire Power BI implementation process. The readers will be able to understand all the concepts covered in this book, from data modelling to creating powerful - visualizations. This book begins with the concepts and terminology such as Star-Schema, dimensions and facts. It explains about multi-table dataset and demonstrates how to load these tables into Power BI. It shows how to load stored data in various formats and create relationships. Readers will also learn more about Data Analysis Expressions (DAX). This book is a must for the developers wherein they learn how to extend the usability of Power BI, to explore meaningful and hidden data insights. Throughout the book, you keep on learning about the concepts, techniques and expert practices on loading and shaping data, visualization design and security implementation. WHAT YOU WILL LEARN ● Learn about Business Intelligence (BI) concepts and its contribution in business analytics. ● Learn to connect, load, and transform data from disparate data sources. ● Start creating and executing powerful DAX calculations. ● Design various visualizations to prepare insightful reports and dashboards. WHO THIS BOOK IS FOR This book is for anyone interested in learning how to use Power BI desktop or starting a career in Business Intelligence and Analytics. While this covers all the fundamentals, it is recommended that the reader be familiar with MS-Excel and database concepts. TABLE OF CONTENTS 1. Understanding the Basics 2. Connect and Shape 3. Optimize your datamodel 4. Data Analysis Expressions (DAX) 5. Visualizations in Power BI 6.

Power BI Service 7. Securing your application

Technical Instructions for the Safe Transport of Dangerous Goods by Air, 1986 Dangerous Goods Panel of Air Navigations 1985

Pilot Selection Robert Bor 2019-10-16 This comprehensive book describes in practical terms - underpinned by research - how recruitment, selection, and psychological

assessment can be conducted amongst pilots. The chapters emphasize evidence-based and ethical selection methods for different pilot groups. It includes chapters written by experts in the field and also covers related areas, such as air traffic controllers and astronauts. The book is written for airline managers, senior pilots responsible for recruitment and training, human resources specialists, human factors and safety specialists, occupational health doctors, psychologists, AMEs, practitioners, or academics involved in pilot selection. Robert Bor, DPhil CPsychol CSci FBPsS HonFRaES UKCP Reg EuroPsy, is a Registered and Chartered Clinical Counselling and Health Psychologist, Registered Aviation Psychologist and Co-Director of the Centre for Aviation Psychology. Carina Eriksen, MSc DipPsych CPsychol FBPsS BABCP, is an HCPC Registered and BPS Chartered Consultant Counselling Psychologist and Registered Aviation Psychologist. Todd P. Hubbard, B.A., M.S. Aeronautical Sciences, Ed.D. Applied Educational Studies in Aviation, Lt. Col. USAF (ret.), is the Clarence E. Page Professor of Human Factors research, University of Oklahoma. Ray King, Psy,D., J.D. is a licensed clinical psychologist, recently retired from the U.S. Air Force, currently with the U.S. Federal Aviation Administration (FAA).

Safety and Reliability: Methodology and Applications Tomasz Nowakowski 2014-09-01 Within the last fifty years the performance requirements for technical objects and systems were supplemented with: customer expectations (quality), abilities to prevent the loss of the object properties in operation time (reliability and maintainability), protection against the effects of undesirable events (safety and security) and the ability to

737NG Training Syllabus Mike Ray 2013-02 737NG Training Syllabus is a highly detailed, full color book virtually crammed with original graphics and thousands of words of descriptive text that will provide a complete training syllabus for persons wishing to learn to operate the 737NG jet airliner. While intended specifically for the Flight Simulation market, even professional airline pilots will find the information useful and informative. This is a guide intended to teach "simmers" how to fly the jet the way "the Pros do". Learning to fly the 737NG like a real pilot is a challenging and exciting adventure awaiting computer-pilots. However, as the increasing complexity of the ADD-ON airplane models blurs the boundary between Professional flight training and flight simulation "games", the task seems very difficult .. or even impossible. Captain Mike Ray's "737NG Training Syllabus" IS the document that will make this transition not only possible, but entertaining and ... well, a whole lot more simple. Written for the beginner as well as the veteran simmer, the profusely illustrated material is crammed with details, diagrams, explanations and useful information. The material starts slowly but builds to a crescendo. It includes a section for the "knows nothing" Ab-initio wannabe pilot and builds to provide information and operational procedures that will provide interesting and useful insight to even the professional airline pilot community. This beautiful and unique document provides the access toolset to the knowledge base that will allow the ordinary garden variety flight sim addict to cross the bridge between operating the current state of the art home based PC flight simulation programs and the real airline style simulator. This book is a MUST HAVE item for the 737NG computer pilot who wants to fly the incredibly accurate add-on airplanes as if they were real pilots. This paperback Black and White version of Captain Mike Ray's book on training to fly the 737NG is a great bargain. You get all the same information that is in the pricier (but more beautiful) color version ... and the same graphic and text that makes the volume such a popular item for both professional airline pilots as well as Flight Simmers. So get a copy ... and learn to fly the 737NG like the pros do.

Pilot Windshear Guide 1988

The Pilot's Guide to the Modern Airline Cockpit Stephen M. Casner 2001 Every new small airline comes standard equipped with the same kind of flight computers and autopilots that you find in commercial passenger aircraft. This provides basic common-sense instruction in the use of cockpit automation equipment now available on smaller propeller aircraft. The entire use of cockpit automation is covered as it happens in an actual flight, from preflight, taxi-out, take-off, cruise, descent, and landing. General aviation cockpit automation equipment covered includes: IFR GPS, Autopilots, Electronic Flight Instruments, Multifunction Navigation Displays, Weather Radar, Ground Proximity Warning Systems, Traffic Collision Avoidance System, Radio Altimeters, Fuel Management Computers, Engine Monitors.

The Power for Flight Jeremy R. Kinney 2018-02-15 The NACA and aircraft propulsion, 1915-1958 -- NASA gets to work, 1958-1975 -- The shift toward commercial aviation, 1966-1975 -- The quest for propulsive efficiency, 1976-1989 -- Propulsion control enters the computer era, 1976-1998 -- Transiting to a new century, 1990-2008 -- Toward the future