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Unconventional, Contrary, and Ugly - National Aeronautics and Space Administration 2013-11
When the United States began considering a piloted voyage to the moon, an enormous number of unknowns about strategies, techniques, and equipment existed. Some people began wondering how a landing maneuver might be performed on the lunar surface. From the beginning of the age of flight, landing has been among the most challenging of flight maneuvers. Touching down smoothly has been the aim of pilots throughout the first century of flight. Designers have sought the optimum aircraft configuration for landing. Engineers have sought the optimum sensors and instruments for best providing the pilot with the information needed to perform the maneuver efficiently and safely. Pilots also have sought the optimum trajectory and control techniques to complete the approach and touchdown reliably and repeatably. Landing a craft on the moon was, in a number of ways, quite different from landing on Earth. The lunar gravitational field is much weaker than Earth's. There were no runways, lights, radio beacons, or navigational aids of any kind. The moon had no atmosphere. Airplane wings or helicopter rotors would not support the craft. The type of controls used conventionally on Earth-based aircraft could not be used. The lack of an atmosphere also meant that conventional flying instrumentation reflecting airspeed and altitude, and rate of climb and descent, would be useless because it relied on static and dynamic air pressure to measure changes, something lacking on the moon's surface. Lift could be provided by a rocket engine, and small rocket engines could be arranged to control the attitude of the craft. But what trajectories should be selected? What type of steering, speed, and rate-of-descent controls should be provided? What kind of sensors could be used? What kind of instruments would provide helpful information to the pilot? Should the landing be performed horizontally on wheels or skids, or vertically? How accurately would the craft need to be positioned for landing? What visibility would the pilot need, and how could it be provided? Some flight-test engineers at NASA's Flight Research Center were convinced that the best way to gain insight regarding these unknowns would be the use of a free-flying test vehicle. Aircraft designers at the Bell Aircraft (Aerosystems) Company believed they could build a craft that would duplicate lunar flying conditions. The two groups collaborated to build the machine. It was unlike any flying ma-chine ever built before or since. The Lunar Landing Research Vehicle (LLRV) was unconventional, sometimes contrary, and always ugly. Many who have seen video clips of the LLRV in flight believe it was designed and built to permit astronauts to practice landing the Apollo Lunar Module (LM). Actually, the LLRV project was begun before NASA had selected the strategy that would use the Lunar Module! Fortunately, when the Lunar Module was designed

somewhat later, its characteristics were sufficiently similar to the LLRV that the LLRV could be used for LM simulation. A later version of the LLRV, the Lunar Landing Training Vehicle (LLTV), provided an even more accurate simulation following considerable modification to better represent the final descent stage. Unconventional, Contrary, & Ugly: The Lunar Landing Research Vehicle tells the complete story of this remarkable machine, the Lunar Landing Research Vehicle, including its difficulties, its successes, and its substantial contribution to the Apollo program. The authors are engineers who were at the heart of the effort. They tell the tale that they alone know and can describe.

Hubert H. Humphrey Building Washington, D.C. - 1993

Intelligent Projects Using Python - Santanu Pattanayak 2019-01-31

Implement machine learning and deep learning methodologies to build smart, cognitive AI projects using Python Key FeaturesA go-to guide to help you master AI algorithms and concepts8 real-world projects tackling different challenges in healthcare, e-commerce, and surveillanceUse TensorFlow, Keras, and other Python libraries to implement smart AI applicationsBook Description This book will be a perfect companion if you want to build insightful projects from leading AI domains using Python. The book covers detailed implementation of projects from all the core disciplines of AI. We start by covering the basics of how to create smart systems using machine learning and deep learning techniques. You will assimilate various neural network architectures such as CNN, RNN, LSTM, to solve critical new world challenges. You will learn to train a model to detect diabetic retinopathy conditions in the human eye and create an intelligent system for performing a video-to-text translation. You will use the transfer learning technique in the healthcare domain and implement style transfer using GANs. Later you will learn to build AI-based recommendation systems, a mobile app for sentiment analysis and a powerful chatbot for carrying customer services. You will implement AI techniques in the cybersecurity domain to generate Captchas. Later you will train and build autonomous vehicles to self-drive using reinforcement learning. You will be using libraries from the Python ecosystem such as TensorFlow, Keras and more to bring the core aspects of machine learning, deep learning, and AI. By the end of this book, you will be skilled to build your own smart models for tackling any kind of AI problems without any hassle. What you will learnBuild an intelligent machine translation system using seq-2-seq neural translation machinesCreate AI applications using GAN and deploy smart mobile apps using TensorFlowTranslate videos into text using CNN and RNNImplement smart AI Chatbots, and integrate and extend them in several domainsCreate smart reinforcement, learning-based applications using Q-LearningBreak and generate CAPTCHA using Deep Learning and Adversarial Learning Who this book is for This book is intended for data scientists, machine learning professionals, and deep learning practitioners who are ready to extend their knowledge and potential in AI. If you want to build real-life smart systems to play a crucial role in every complex domain, then this book is what you need. Knowledge of Python programming and a familiarity with basic machine learning and deep learning concepts are expected to help you get the most out of the book

Plant Biodiversity and Genetic Resources - Andreas W. Ebert 2021-06-18

The papers included in this Special Issue address a variety of important aspects of plant biodiversity and genetic resources, including definitions, descriptions, and illustrations of different components and their value for food and nutrition security, breeding, and environmental services. Furthermore, comprehensive information is provided regarding conservation approaches and techniques for plant genetic resources, policy aspects, and results of biological, genetic, morphological, economic, social, and breeding-related research activities. The complexity and vulnerability of (plant) biodiversity and its inherent genetic resources, as an integral part of the contextual ecosystem and the human web of life, are clearly demonstrated in this Special Issue, and for several encountered problems and constraints, possible approaches or solutions are presented to overcome these.

Strategic Management and Business Policy - Thomas L. Wheelen 1998-01

This text provides the Strategic Management and Business Policy student with a presentation of traditional and new strategic management topics. These topics include: corporate governance, hypercompetition, competitive strategy, outsourcing, mass customization, technology, international issues, environmental trends and ethics.

Effective Public Relations - Scott M. Cutlip 1962

Dietary Intake and Type 2 Diabetes - Omorogieva Ojo 2019-12-05

The prevalence of diabetes is on the increase in the UK and worldwide, partly due to changes in lifestyle which predispose individuals to overweight and obesity. It is estimated that about 90% of the currently diagnosed adults have type 2 diabetes, and based on the World Health Organisation (WHO) report, about 422 million adults were living with diabetes in 2014 compared with 108 million in 1980; this condition caused about 1.5 million deaths in 2012. In the United States of America, it is estimated that about 30.3 million adults are living with diabetes, with a further 1.5 million new diabetes cases diagnosed every year, representing an increasing prevalence of this condition. Diabetes represents a major public health challenge, despite advances in technology and the pharmaceutical industry. These problems may be in the form of acute or long-term complications. Therefore, in order to attenuate the problems of diabetes, management strategies usually include lifestyle changes such as increased physical activity and dietary interventions. Studies which evaluate the role of nutrition in the management of type 2 diabetes often involve human and animal models as these approaches enable us to have a broader and more in-depth understanding of the condition. In some cases, diabetes may co-exist with other conditions, such as stroke, and these may present unique challenges with regard to nutritional interventions. This Special Issue aims to evaluate the risk factors associated with type 2 diabetes and the role of the diet in the management of people with this condition. This evidence is drawn from both human and animal studies.

Interventions, Controls, and Applications in Occupational Ergonomics - William S. Marras 2006-02-02

Completely revised and updated, taking the scientific rigor to a whole new level, the second edition of the Occupational Ergonomics Handbook is now available in two volumes. This new organization demonstrates the enormous amount of advances that have occurred in the field since the publication of the first edition. The editors have brought together

The Handbook of Multimodal-Multisensor Interfaces, Volume 3 - Sharon Oviatt 2019-06-25

The Handbook of Multimodal-Multisensor Interfaces provides the first authoritative resource on what has become the dominant paradigm for new computer interfaces-user input involving new media (speech, multi-touch, hand and body gestures, facial expressions, writing) embedded in multimodal-multisensor interfaces. This three-volume handbook is written by international experts and pioneers in the field. It provides a textbook, reference, and technology roadmap for professionals working in this and related areas. This third volume focuses on state-of-the-art multimodal language and dialogue processing, including semantic integration of modalities. The development of increasingly expressive embodied agents and robots has become an active test bed for coordinating multimodal dialogue input and output, including processing of language and nonverbal communication. In addition, major application areas are featured for commercializing multimodal-multisensor systems, including automotive, robotic, manufacturing, machine translation, banking, communications, and others. These systems rely heavily on software tools, data resources, and international standards to facilitate their development. For insights into the future, emerging multimodal-multisensor technology trends are highlighted in medicine, robotics, interaction with smart spaces, and similar areas. Finally, this volume discusses the societal impact of more widespread adoption of these systems, such as privacy risks and how to mitigate them. The handbook chapters provide a number of walk-through examples of system design and processing, information on practical resources for developing and evaluating new systems, and terminology and tutorial support for mastering this emerging field. In the final section of this volume, experts exchange views on a timely and controversial challenge topic, and how

they believe multimodal-multisensor interfaces need to be equipped to most effectively advance human performance during the next decade.
Toward Mach 2 - J. D. Hunley 1999

Built to Last - Jim Collins 2002-08-20
Drawing upon a six-year research project at the Stanford University Graduate School of Business, James C. Collins and Jerry I. Porras took eighteen truly exceptional and long-lasting companies and studied each in direct comparison to one of its top competitors. They examined the companies from their very beginnings to the present day -- as start-ups, as midsize companies, and as large corporations. Throughout, the authors asked: "What makes the truly exceptional companies different from the comparison companies and what were the common practices these enduringly great companies followed throughout their history?" Filled with hundreds of specific examples and organized into a coherent framework of practical concepts that can be applied by managers and entrepreneurs at all levels, Built to Last provides a master blueprint for building organizations that will prosper long into the 21st century and beyond.
Interested in Environmental Health?. - United States. Health Manpower Education Bureau.?UNAUTHORIZED. 1972

Striking the Hornets' Nest - Geoffrey Rossano 2015-10-19
Striking the Hornets' Nest provides the first extensive analysis of the Northern Bombing Group (NBG), the Navy's most innovative aviation initiative of World War I and one of the world's first dedicated strategic bombing programs. Very little has been written about the Navy's aviation activities in World War I and even less on the NBG. Standard studies of strategic bombing tend to focus on developments in the Royal Air Force or the U.S. Army Air Service. This work concentrates on the origins of strategic bombing in World War I, and the influence this phenomenon had on the Navy's future use of the airplane. The NBG program faced enormous logistical and personnel challenges. Demands for aircraft, facilities, and personnel were daunting, and shipping shortages added to the seemingly endless delays in implementing the program. Despite the impediments, the Navy (and Marine Corps) triumphed over organizational hurdles and established a series of bases and depots in northern France and southern England in the late summer and early fall of 1918. Ironically, by the time the Navy was ready to commence bombing missions, the German retreat had caused abandonment of the submarine bases the NBG had been created to attack. The men involved in this program were pioneers, overcoming major obstacles only to find they were no longer needed. Though the Navy rapidly abandoned its use of strategic bombing after World War I, their brief experimentation directed the future use of aircraft in other branches of the armed forces. It is no coincidence that Robert Lovett, the young Navy reserve officer who developed much of the NBG program in 1918, spent the entire period of World War II as Assistant Secretary of War for Air where he played a crucial role organizing and equipping the strategic bombing campaign unleashed against Germany and Japan. Rossano and Wildenberg have provided a definitive study of the NBG, a subject that has been overlooked for too long.
Recreation Assistant - National Learning Corporation 2014-12
The Recreation Assistant Passbook(R) prepares you for your test by allowing you to take practice exams in the subjects you need to study. It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam, including but not limited to: fundamentals of recreation activities; organizing and conducting recreation activities; principles and practices of leisure recreation; and more.
Sabkha Ecosystems - M. Ajmal Khan 2014-05-12
Sustainable development is the key for the survival in 21st century. The natural resources are finite and cannot be used with impunity because we are the custodian of these resources and have responsibility to pass these to the next generation. This monumental task requires several major commitments and most important of them is to arrest population explosion which has already reached seven billion. Natural resources like air to breath, food to eat, and water to drink, and fossil fuel to maintain

this life style are being overexploited. Unrestrained consuming culture will accelerate undesired situation. This situation will have more dire consequences in resource limited ecosystems like dry lands. Given the severe scarcity of water, ever increasing population and soil salinization out of the box solutions for the provision of food and clean energy is required to spare meager fresh water resources for conventional agriculture. This volume contains a number of articles dealing with halophyte ecology, bio-geography, ecophysiology, hyper-saline soils, biofuels, biosaline agriculture, biosaline landscaping, climate change mitigation, and biodiversity. It also contains the communication of innovative ideas, such as the research into floating mangroves, seagrass terraces, as well as a World Halophyte Garden containing all known salt-tolerant plant species. It is hoped that the information provided will not only advance vegetation science, but that it will truly generate more interdisciplinarity, networking, awareness, and inspire farmers, and agricultural and landscaping stakeholders to seriously engage in halophyte cash crop production in coastal hyper-saline areas.

747 - Joe Sutter 2010-08-03

747 is the thrilling story behind "the Queen of the Skies"—the Boeing 747—as told by Joe Sutter, one of the most celebrated engineers of the twentieth century, who spearheaded its design and construction. Sutter's vivid narrative takes us back to a time when American technology was cutting-edge and jet travel was still glamorous and new. With wit and warmth, he gives an insider's sense of the larger than life-size personalities—and the tensions—in the aeronautical world.

Engine Essentials - MicroStrategy University 2013-09-01

The MicroStrategy Engine Essentials course explains the inner workings of the MicroStrategy Engine. In this course, you will study specific reporting scenarios and the MicroStrategy Engine’s techniques for composing the SQL queries that produce MicroStrategy reports. You will study concepts such as level metrics, transformation metrics, custom groups, and relationship filters from a SQL point of view. The course also reviews the most commonly used VLDB Properties.

Effective Public Relations - Glen M. Broom 2008

For courses in Introductory Public Relations. Cutlip & Center offers students the gold standard in public relations, providing the most up-to-date reference in the market. In the new edition, Glen Broom continues the work of Cutlip and Center by providing the most up-to-date reference for students.

The Powder Puff Derby of 1929 - Gene Nora Jessen 2002

A thrilling narrative, this is the unforgettable true story of the 1929 air race that legitimized female pilots. Jessen tells the stories of the first women pilots, gutsy and colorful adventurers who fought for the right to become part of the male-dominated world of aviation. Photos.

Software and Systems Traceability - Jane Huang 2012-02-02

Software and Systems Traceability provides a comprehensive description of the practices and theories of software traceability across all phases of the software development lifecycle. The term software traceability is derived from the concept of requirements traceability. Requirements traceability is the ability to track a requirement all the way from its origins to the downstream work products that implement that requirement in a software system. Software traceability is defined as the ability to relate the various types of software artefacts created during the development of software systems. Traceability relations can improve the quality of a product being developed, and reduce the time and cost of development. More specifically, traceability relations can support evolution of software systems, reuse of parts of a system by comparing components of new and existing systems, validation that a system meets its requirements, understanding of the rationale for certain design and implementation decisions, and analysis of the implications of changes in the system.

More Than a Memoir - NELSON J. LEONARD 2006-03-28

In this unusual autobiography you will find the full story of a life spanning much of the twentieth century. Selective reading will disclose How a teacher/scientist may develop The importance of focus and integrity The fascination of doing chemical and biochemical research with students and colleagues The excitement of discovery and of facing new challenges Personal details about family life and friendships Career

choices and diversions Plus In the 23 (!) appendices, you will find details concerning Other activities attendant upon a career in science The influence of conferences, symposia, and international scientific connections The coworkers who built the reputation of the author

Bibliographies on Aerospace Science - United States. National Aeronautics and Space Administration. Scientific and Technical Information Division 1964

Psychosocial Development in Adolescence - E. Saskia Kunnen 2019-04-25

Over recent years, it has become clear that group-based approaches cannot directly be used to understand individual adolescent development. For that reason, interest in dynamic systems theory, or DST, has increased rapidly. Psychosocial Development in Adolescence: Insights from the Dynamic Systems Approach covers state-of-the-art insights into adolescent development that have resulted from adopting a dynamic systems approach. The first chapter of the book provides a basic introduction into dynamic systems principles and explains their consequences for the study of psychosocial development in adolescence. Subsequently, different experts discuss why and how we should apply a dynamic systems approach to the study of the adolescent transition period and psychological interventions. Various examples of the application of a dynamic systems approach are showcased, ranging from basic to more advanced techniques, as well as the insights they have generated. These applications cover a variety of fundamental topics in adolescent development, ranging from the development of identity, morality, sexuality, and peer networks, to more applied topics such as psychological interventions, educational dropout, and talent development. This book will be invaluable to both beginner and expert-level students and researchers interested in a dynamic systems approach and in the insights that it has yielded for adolescent development.

Fundamentals of Physics - David Halliday 1996-08-09

This popular book incorporates modern approaches to physics. It not only tells readers how physics works, it shows them. Applications have been enhanced to form a bridge between concepts and reasoning.

Applied Transport Economics - Stuart Cole 2005

Revised and updated to cover developments and thinking in transport economics, the book examines the application of economics techniques first, to commercial transport operations, second, to public policy issues and third, to the role of transport in its wider economic context.

Business Law and the Legal Environment, Standard Edition - Jeffrey F. Beatty 2012-01-02

BUSINESS LAW AND THE LEGAL ENVIRONMENT, 6E uses vivid examples and memorable scenarios to lead students through the full breadth of business law. Focusing on hands-on application and using a conversational writing style, this handy textbook equips students for business challenges from the first page. Plus, by showing students through practice how legal concepts apply to their future careers, BUSINESS LAW AND THE LEGAL ENVIRONMENT, 6E draws students into the material, helping them study more effectively and diligently. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Manual for Complex Litigation, Fourth - 2004

Pet-Specific Care for the Veterinary Team - Lowell Ackerman 2021-03-23

A practical guide to identifying risks in veterinary patients and tailoring their care accordingly Pet-specific care refers to a practice philosophy that seeks to proactively provide veterinary care to animals throughout their lives, aiming to keep pets healthy and treat them effectively when disease occurs. Pet-Specific Care for the Veterinary Team offers a practical guide for putting the principles of pet-specific care into action. Using this approach, the veterinary team will identify risks to an individual animal, based on their particular circumstances, and respond to these risks with a program of prevention, early detection, and treatment to improve health outcomes in pets and the satisfaction of their owners. The book combines information on medicine and management, presenting specific guidelines for appropriate medical

interventions and material on how to improve the financial health of a veterinary practice in the process. Comprehensive in scope, and with expert contributors from around the world, the book covers pet-specific care prospects, hereditary and non-hereditary considerations, customer service implications, hospital and hospital team roles, and practice management aspects of pet-specific care. It also reviews specific risk factors and explains how to use these factors to determine an action plan for veterinary care. This important book: Offers clinical guidance for accurately assessing risks for each patient Shows how to tailor veterinary care to address a patient's specific risk factors Emphasizes prevention, early detection, and treatment Improves treatment outcomes and provides solutions to keep pets healthy and well Written for veterinarians, technicians and nurses, managers, and customer service representatives, Pet-Specific Care for the Veterinary Team offers a hands-on guide to taking a veterinary practice to the next level of care.

Air Force Handbook 1 - U. S. Air Force 2018-07-17

This handbook implements AFPD 36-22, Air Force Military Training. Information in this handbook is primarily from Air Force publications and contains a compilation of policies, procedures, and standards that guide Airmen's actions within the Profession of Arms. This handbook applies to the Regular Air Force, Air Force Reserve and Air National Guard. This handbook contains the basic information Airmen need to understand the professionalism required within the Profession of Arms. Attachment 1 contains references and supporting information used in this publication. This handbook is the sole source reference for the development of study guides to support the enlisted promotion system. Enlisted Airmen will use these study guide to prepare for their Promotion Fitness Examination (PFE) or United States Air Force Supervisory Examination (USAFSE).

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

NASA SP. - 1965

Public Health: What It Is and How It Works - Bernard J. Turnock 2009-10-07

Using a straightforward systems approach, Public Health: What It Is and How It Works explores the inner workings of the complex, modern U.S. public health system—what it is, what it does, how it works, and why it is important. It covers the origins and development of the modern public health system; the relationship of public health to the overall health system; how the system is organized at the federal, state, and local levels; its core functions and how well these are currently being addressed; evidence-based practice and an approach to program planning and evaluation for public health interventions; public health activities such as epidemiological investigation, biomedical research, environmental assessment, policy development, and more. Transition to the New Edition! Click here to access our transition guide—and make

changing your course materials from the third edition to the fourth edition as easy as possible! The Fourth Edition is a thorough revision that includes: The latest developments with public health agency accreditation, public health worker credentialing, workforce development, as well as future challenges in the field. Coverage of the new core competencies for the MPH degree recently established by the Association of Schools of Pubic Health. A new series of charts describing current health status and trends related to the content of each chapter. New Learning Objectives in each chapter. New Public Health Spotlights in chapters 1-8 which provide a focused examination of topics related to the learning objectives for that chapter. A complete package of instructor support material for both online and traditional classroom environments including course modules, sample syllabus, course resources, competency map, and detailed chapter-by-chapter PowerPoint slides.

Handbook on Brand and Experience Management - Bernd Schmitt 2008

This important Handbook explores new and emerging directions in both brand management research and practice. It encompasses a diverse set of approaches including the latest academic research offering new frameworks for understanding brand management, the researcher's perspective on current tools in practice by brand managers, new research and conceptual frameworks for understanding and managing customer experiences and recent empirical research and scale development in both brand and experience management. the book focuses on practical, managerial, and organizational best practices.

Strategic Management - Charles W. L. Hill 2002

Product Design and Development - Karl T. Ulrich 2003

Treating such contemporary design and development issues as identifying customer needs, design for manufacturing, prototyping, and industrial design, Product Design and Development, 3/e, by Ulrich and Eppinger presents in a clear and detailed way a set of product development techniques aimed at bringing together the marketing, design, and manufacturing functions of the enterprise. The integrative methods in the book facilitate problem solving and decision making among people with different disciplinary perspectives, reflecting the current industry trend to perform product design and development in cross-functional teams.

The Gas Turbine Handbook - Tony Giampaolo 2003

This comprehensive, best-selling reference provides the fundamental information you'll need to understand both the operation and proper application of all types of gas turbines. The full spectrum of hardware, as well as typical application scenarios are fully explored, along with operating parameters, controls, inlet treatments, inspection, troubleshooting, and more. The second edition adds a new chapter on gas turbine noise control, as well as an expanded section on use of inlet cooling for power augmentation and NOx control. The author has provided many helpful tips that will enable diagnosis of problems in their early stages and analysis of failures to prevent their recurrence. Also treated are the effects of the external environment on gas turbine operation and life, as well as the impact of the gas turbine on its surrounding environment.

Rico - Jed S. Rakoff 2022-07-28

RICO: Civil and Criminal Law and Strategy provides a fundamental grounding in substantive RICO law and focuses on strategic and tactical considerations of RICO practice.

Motion Picture Testing and Research - James Jerome Gibson 1947

Historical background of motion picture testing and research; The use of motion pictures in the design of psychological tests; Technique of construction of motion picture tests; The presentation of motion picture tests and other films requiring activity by the group; Aptitude tests; Proficiency tests; Research on the recognition of aircraft; Pictures as substitutes for visual realities; Perception and judgment of aerial space and distance as potential factors in pilot selection and training; The instructional techniques peculiar to motion pictures.

The Handbook of Multimodal-Multisensor Interfaces, Volume 1 - Sharon Oviatt 2017-06-01

The Handbook of Multimodal-Multisensor Interfaces provides the first

authoritative resource on what has become the dominant paradigm for new computer interfaces— user input involving new media (speech, multi-touch, gestures, writing) embedded in multimodal-multisensor interfaces. These interfaces support smart phones, wearables, in-vehicle and robotic applications, and many other areas that are now highly competitive commercially. This edited collection is written by international experts and pioneers in the field. It provides a textbook, reference, and technology roadmap for professionals working in this and related areas. This first volume of the handbook presents relevant theory and neuroscience foundations for guiding the development of high-performance systems. Additional chapters discuss approaches to user modeling and interface designs that support user choice, that synergistically combine modalities with sensors, and that blend multimodal input and output. This volume also highlights an in-depth look at the most common multimodal-multisensor combinations—for example, touch and pen input, haptic and non-speech audio output, and speech-centric systems that co-process either gestures, pen input, gaze, or visible lip movements. A common theme throughout these chapters is supporting mobility and individual differences among users. These handbook chapters provide walk-through examples of system design and processing, information on tools and practical resources for developing and evaluating new systems, and terminology and tutorial support for mastering this emerging field. In the final section of this volume, experts exchange views on a timely and controversial challenge topic, and how they believe multimodal-multisensor interfaces should be designed in the future to most effectively advance human performance.

Civil RICO - Gregory P. Joseph 2000

This valuable book provides a concise, yet thorough analysis of a confusing statute and morass of case law. Extremely well organized and indexed, the guide allows you to locate promptly and easily issues pertinent to your case.