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Popular Photography Springer Science & Business Media

Hypersonics is the study of flight at speeds where aerodynamic heating dominates the physics of the problem. Typically this is Mach 5 and higher.

Hypersonics is an engineering science with close links to supersonics and engine design. Within this field, many of the most important results have been experimental. The principal facilities have been wind tunnels and related devices, which have produced flows with speeds up to orbital velocity. Why is it important? Hypersonics has had two major applications. The first has been to

provide thermal protection during atmospheric entry. Success in this enterprise has supported ballistic-missile nose cones, has returned strategic reconnaissance photos from orbit and astronauts from the Moon, and has even dropped an instrument package into the atmosphere of Jupiter. The last of these approached Jupiter at four times the speed of a lunar mission returning to Earth. Work with re-entry has advanced rapidly because of its obvious importance. The second application has involved high-speed propulsion and has sought to develop the scramjet as an advanced airbreathing ramjet. Scramjets are built to run cool and thereby to achieve near-orbital speeds. They were important during the Strategic Defense Initiative, when a set of these engines was to power the experimental X-30 as a major new launch vehicle. This effort fell short, but the X-43A, carrying a scramjet, has recently flown at Mach 9.65 by using a rocket. Atmospheric entry today is fully mature as an engineering discipline. Still, the Jupiter experience shows that work with its applications continues to reach for new achievements. Studies of scramjets, by contrast, still seek full success, in which such engines can accelerate a vehicle without the use of rockets. Hence, there is much to do in this area as well. For instance, work with computers may soon show just how good

scramjets can become. NASA SP-2007-4232

Building Electro-Optical Systems CreateSpace

This volume of the acclaimed Methods in Cell Biology series provides specific examples of applications of confocal microscopy to cell biological problems. It is an essential guide for students and scientists in cell biology, neuroscience, and many other areas of biological and biomedical research, as well as research directors and technical staff of microscopy and imaging facilities. An integrated and up-to-date coverage on the many various techniques and uses of the confocal microscope (CM). Includes detailed protocols accessible to new users Details how to set up and run a "Confocal Microscope Core Facility" Contains over 170 figures

Popular Photography McGraw-Hill Science, Engineering & Mathematics

Featuring a number of pioneering essays by the internationally known Russian cultural historians Boris Uspenskij and Victor Zhivov, this collection includes a number of essays appearing in English for the first time. Focusing on several of the most interesting and problematic aspects of Russia's cultural development, these essays examine the survival and the reconceptualization of the past in later cultural systems and some of the key transformations of Russian cultural consciousness. The essays in this collection contain some important examples of Russian cultural semiotics and remain indispensable contributions to the history of Russian civilization.

How to Read a Person Like a Book Ars Rossica

This unique program teaches listeners how to "decode" and reply to non-verbal signals from friends and business associates when those signals are often vague and thus

frequently ignored

"Tsar and God" and Other Essays in Russian Cultural Semiotics IWA Publishing

Biotechnology Is One Of The Major New Technologies Of The Twenty-First Century That Covers Multi-Disciplinary Issues, Including Recombinant DNA Techniques, Cloning, Genetics, And The Application Of Microbiology To The Production Of Goods. It Continues To Revolutionize Treatments Of Many Diseases, And It Is Used To Deal With Environmental Solutions. The Biotechnology Procedures And Experiments Handbook Provides Practicing Professionals And Biotechnology Students Over 150 Applied, Up-To-Date Laboratory Techniques And Experiments Related To Modern Topics Such As Recombinant DNA, Electrophoresis, Stem Cell Research, Genetic Engineering, Microbiology, Tissue Culture, And More. Each Lab Technique Includes 1)A Principle, 2)The Necessary Reagents, 3)A Step By Step Procedure, And 4)A Final Result. Also Included Is A Section That Shows How To Avoid Potential Pitfalls Of A Specific Experiment. The Book Is Accompanied By A CD-ROM Containing Simulations, White Papers, And Other Relevant Material To Biotechnology.

Practical Manual of Operative Laparoscopy and Hysteroscopy Laxmi Publications, Ltd.

Since its publication, the first edition of *Fingerprints and Other Ridge Skin Impressions* has become a classic in the field. This second edition is completely updated, focusing on the latest technology and techniques—including current detection procedures, applicable processing and analysis methods—all while incorporating the expansive growth of literature on the topic since the publication of the original edition. Forensic science has been challenged in recent years as a result of errors, courts and other scientists contesting verdicts, and changes of a fundamental nature related to previous claims of infallibility and absolute individualization. As such, these factors represent a fundamental change in the way training, identifying, and reporting should be conducted. This book addresses these questions with a clear viewpoint as to where the profession—and ridge skin identification in particular—must go and what efforts and research will help develop the field over the next several years. The second edition introduces several new topics, including Discussion of ACE-V and research results from ACE-V studies Computerized marking systems to help examiners produce reports New probabilistic models and decision theories

about ridge skin evidence interpretation, introducing Bayesnet tools Fundamental understanding of ridge mark detection techniques, with the introduction of new aspects such as nanotechnology, immunology and hyperspectral imaging Overview of reagent preparation and application Chapters cover all aspects of the subject, including the formation of friction ridges on the skin, the deposition of latent marks, ridge skin mark identification, the detection and enhancement of such marks, as well the recording of fingerprint evidence. The book serves as an essential reference for practitioners working in the field of fingermark detection and identification, as well as legal and police professionals and anyone studying forensic science with a view to understanding current thoughts and challenges in dactyloscopy.

Popular Photography Springer Nature

An illustrated user's manual for the Panasonic Lumix FZ200 camera covering both the basic camera set up in the full auto (intelligent auto) and all the other, semi automatic and manual modes. Plenty of illustrations and examples of the effects of the control settings and extensive background information on the image taking process with this camera. Advise on how to take pictures in any situation and practical advice for recording video and audio with this camera from lighting and external microphone choice. Complete with links to several hours on on line video tutorials and hints

and tips.

Stem Cells David De Angelis

Seven years have passed since the publication of the previous edition of this book. During that time, sensor technologies have made a remarkable leap forward. The sensitivity of the sensors became higher, the dimensions became smaller, the selectivity became better, and the prices became lower. What have not changed are the fundamental principles of the sensor design. They are still governed by the laws of Nature. Arguably one of the greatest geniuses who ever lived, Leonardo Da Vinci, had his own peculiar way of praying. He was saying, "Oh Lord, thanks for Thou do not violate your own laws. " It is comforting indeed that the laws of Nature do not change as time goes by; it is just our appreciation of them that is being re?ned. Thus, this new edition examines the same good old laws of Nature that are employed in the designs of various sensors. This has not changed much since the previous edition. Yet, the sections that describe the practical designs are revised substantially. Recent ideas and developments have been added, and less important and nonessential designs were

dropped. Probably the most dramatic recent progress in the sensor technologies relates to wide use of MEMS and MEOMS (micro-electro-mechanical systems and micro-electro-opto-mechanical systems). These are examined in this new edition with greater detail. This book is about devices commonly called sensors. The invention of a - croprocessor has brought highly sophisticated instruments into our everyday lives.

Popular Photography John Wiley & Sons

Praise for the First Edition "Now a new laboratory bible for optics researchers has joined the list: it is Phil Hobbs's Building Electro-Optical Systems: Making It All Work." -Tony Siegman, Optics & Photonics News Building a modern electro-optical instrument may be the most interdisciplinary job in all of engineering. Be it a DVD player or a laboratory one-off, it involves physics, electrical engineering, optical engineering, and computer science interacting in complex ways. This book will help all kinds of technical people sort through the complexity and build electro-optical systems that just work, with maximum insight and minimum trial and error. Written in an engaging and conversational style, this Second Edition has been updated and expanded over the previous edition to reflect technical advances and a great many conversations with working designers. Key features of this new edition include: Expanded coverage of detectors, lasers, photon budgets, signal

processing scheme planning, and front ends Coverage of everything from basic theory and measurement principles to design debugging and integration of optical and electronic systems Supplementary material is available on an ftp site, including an additional chapter on thermal Control and Chapter problems highly relevant to real-world design Extensive coverage of high performance optical detection and laser noise cancellation Each chapter is full of useful lore from the author's years of experience building advanced instruments. For more background, an appendix lists 100 good books in all relevant areas, introductory as well as advanced. Building Electro-Optical Systems: Making It All Work, Second Edition is essential reading for researchers, students, and professionals who have systems to build.

Popular Photography CreateSpace

Hatha Yoga Pradipika is among the most influential surviving texts on hatha yoga. The text describes asanas, purifying practices, shatkarma, mudras, finger and hand positions, bandhas, locks, and pranayama, breath exercises. The book explains the purpose of Hatha Yoga, the awakening of subtle energy kundalini, advancement to Raja Yoga, and the experience of deep meditative absorption known as samadhi.

Algal Technologies for Wastewater Treatment and Resource Recovery Barnes & Noble

Publishing

Over 80% of globally produced wastewater receives little or no treatment before it is

disposed into the environment. Therefore, it is urgent to develop new wastewater treatment technologies that are sustainable in the broad sense of the word, i.e. not only produce high quality effluents, but also minimise energy expenses, recover energy and nutrients, and apply technology that is appropriate in relation to the availability of skilled personnel. This book compiles the main outcomes of recent efforts to improve the design of waste stabilisation ponds, and confirms the superior performance of high rate algal ponds as a result of process intensification. Anaerobic digestion devoted to biogas production continues to be the preferred strategy for the energy valorisation of the algal biomass, co-digestion with multiple high C/N ratio substrates gathering significant attention over the past years. The potential of algal biomass as a biosorbent for heavy metal removal (Cu, Ni, F) maintains its share in the research field of water bioremediation, while research on nutrient removal has focused on providing new insights on the mechanism of nitrogen and phosphorus removal from wastewater in algal-bacterial systems. Finally, it is worth noticing that

breakthroughs in complementary fields of research such as nanotechnology or lighting technology are gradually being implemented in algal biotechnology, with new products such as nanoparticles for water disinfection or photobioreactors illuminated by low intensity LED panels. In Focus - a book series that showcases the latest accomplishments in water research. Each book focuses on a specialist area with papers from top experts in the field. It aims to be a vehicle for in-depth understanding and inspire further conversations in the sector.

Design of Gravity Dams National Aeronautics & Space Administration

The second edition of Stem Cells: Scientific Facts and Fiction provides the non-stem cell expert with an understandable review of the history, current state of affairs, and facts and fiction of the promises of stem cells. Building on success of its award-winning preceding edition, the second edition features new chapters on embryonic and iPS cells and stem cells in veterinary science and medicine. It contains major revisions on cancer stem cells to include new culture models, additional interviews with leaders in progenitor cells, engineered eye tissue, and xeno organs from stem cells, as well as new information on "organs on chips" and adult progenitor cells. In the past decades our understanding of stem cell biology has increased

tremendously. Many types of stem cells have been discovered in tissues that everyone presumed were unable to regenerate in adults, the heart and the brain in particular. There is vast interest in stem cells from biologists and clinicians who see the potential for regenerative medicine and future treatments for chronic diseases like Parkinson's, diabetes, and spinal cord lesions, based on the use of stem cells; and from entrepreneurs in biotechnology who expect new commercial applications ranging from drug discovery to transplantation therapies. - Explains in straightforward, non-specialist language the basic biology of stem cells and their applications in modern medicine and future therapy - Includes extensive coverage of adult and embryonic stem cells both historically and in contemporary practice - Richly illustrated to assist in understanding how research is done and the current hurdles to clinical practice

Proceedings of the International Petroleum and Petrochemical Technology Conference 2019 John Wiley & Sons

Whether you're designing consumer electronics, medical devices, enterprise Web apps, or new ways to check out at the supermarket, today's digitally-enabled products and services provide both great opportunities to deliver compelling user experiences and great risks of driving your customers crazy with complicated, confusing technology. Designing successful products and services in the digital age

requires a multi-disciplinary team with expertise in interaction design, visual design, industrial design, and other disciplines. It also takes the ability to come up with the big ideas that make a desirable product or service, as well as the skill and perseverance to execute on the thousand small ideas that get your design into the hands of users. It requires expertise in project management, user research, and consensus-building. This comprehensive, full-color volume addresses all of these and more with detailed how-to information, real-life examples, and exercises. Topics include assembling a design team, planning and conducting user research, analyzing your data and turning it into personas, using scenarios to drive requirements definition and design, collaborating in design meetings, evaluating and iterating your design, and documenting finished design in a way that works for engineers and stakeholders alike.

Popular Photography Cambridge Scholars Publishing

Occasionally a man emerges from history without us knowing him. Duke Vespasiano Gonzaga (1531-91) of Sabbioneta escaped the net of sixteenth century Italy, its history of wars and conflicts, to fashion a life that was uniquely different. He set out to change the way urban man lived. Importantly, he was the

first man to build a Città ideale. Sabbioneta is the prototype of all planned cities of the modern era. As a confidant of King Philip II of Spain and a traveller, he quickly acquired a cosmopolitan worldview, which led him to become a uomo universale. It was in this capacity that he designed Sabbioneta as a genuine "little Athens." His life was fraught with tragedy, however. Not only did he suffer from syphilis, but his personal troubles left him emotionally damaged. The mysterious death of two wives, including the beautiful Diana of Cardona, forced him to find solace in the construction of his ideal city. As nephew to the legendary Giulia Gonzaga - and with her encouragement - the Duke managed to forge a career as a poet, bibliophile, antiquarian, condottiero, urban planner and diplomat, all against the backdrop of New World discovery, the Protestant Reformation, and the Inquisition. This book reveals another fascinating story: Vespasiano Gonzaga's link to Shakespeare's Hamlet. Like the Prince of Denmark, he reflects the emergence of our modern consciousness. He was a true Renaissance man whose legacy remains with us to this day. As a self-fashioned personality, the Duke made every attempt to place himself at the forefront of events of his time. His life tells us a great deal about how late-Renaissance men exteriorised their inner world in a bid to

achieve immortality.

Cell Biological Applications of Confocal Microscopy

CRC Press

Cryptography, the art and science of creating secret codes, and cryptanalysis, the art and science of breaking secret codes, underwent a similar and parallel course during history. Both fields evolved from manual encryption methods and manual codebreaking techniques, to cipher machines and codebreaking machines in the first half of the 20th century, and finally to computerbased encryption and cryptanalysis from the second half of the 20th century. However, despite the advent of modern computing technology, some of the more challenging classical cipher systems and machines have not yet been successfully cryptanalyzed. For others, cryptanalytic methods exist, but only for special and advantageous cases, such as when large amounts of ciphertext are available. Starting from the 1990s, local search metaheuristics such as hill climbing, genetic algorithms, and simulated annealing have been employed, and in some cases, successfully, for the cryptanalysis of several classical ciphers. In most cases, however, results were mixed, and the application of such methods rather limited in their scope and performance. In this work, a robust framework and methodology for the cryptanalysis of classical ciphers using local search metaheuristics, mainly hill climbing and simulated annealing, is described. In an extensive set of case studies conducted as part of this research, this new methodology has been validated

and demonstrated as highly effective for the cryptanalysis of several challenging cipher systems and machines, which could not be effectively cryptanalyzed before, and with drastic improvements compared to previously published methods. This work also led to the decipherment of original encrypted messages from WWI, and to the solution, for the first time, of several public cryptographic challenges.

Popular Photography Springer Science & Business Media

This is a completely updated and revised version of a monograph published in 2002 by the NASA History Office under the original title *Deep Space Chronicle: A Chronology of Deep Space and Planetary Probes, 1958-2000*. This new edition not only adds all events in robotic deep space exploration after 2000 and up to the end of 2016, but it also completely corrects and updates all accounts of missions from 1958 to 2000--Provided by publisher.

Popular Photography Elsevier Inc. Chapters Balancing technical material with important historical aspects of the invention and design of aeroplanes, this book develops aircraft performance techniques from first principles and applies them to real aeroplanes.

Panasonic Lumix DMC-Fz200 User's Manual kassel university press GmbH

This book is a compilation of selected papers from the 3rd International Petroleum and Petrochemical Technology Conference (IPPTC 2019). The work focuses on petroleum & petrochemical technologies and practical challenges in the field. It creates a platform to bridge the knowledge gap between China and the world. The conference not only provides a platform to exchange experience but also promotes the development of scientific research in petroleum & petrochemical technologies. The book will benefit a broad readership, including industry experts, researchers, educators, senior engineers and managers.

Popular Photography IUCN

Addressing a field that has been dominated by astronomers, physicists, engineers, and computer scientists, the contributors to this collection raise questions that may have been overlooked by physical scientists about the ease of establishing meaningful communication with an extraterrestrial intelligence. These scholars are grappling with some of the enormous challenges that will face humanity if an information-rich signal emanating from another world is detected. By drawing on issues at the core of contemporary archaeology and anthropology, we can be much better prepared for contact with an extraterrestrial civilization, should that day ever come.

Popular Photography Academic Press

In the past decade, the future of gynecologic also arisen. Mastery is imperative. One can not endoscopic surgery has been largely unpredictable master these techniques by mimicking what able. Now it is obvious that time has changed other surgeons do, but must understand the gynecology in such a way to make many of the principles of the technological advances. Laser procedures that were commonly done obso physics and properties must be understood later. At no other time in the history of gyneco and, in addition, optics and television technology surgery has such an explosion occurred ogy are critical to performing excellent endo thus changing the face of this specialty to such a scopic surgery. great degree. But in addition to solving many Old timers are playing catch-up ball, but it is problems, the past decade has left us with the young that are the leaders and pioneers in many new and novel dilemmas. our field. It is for this reason that this text rep One of the ways in which our field has resents all that is important in endoscopic tremendously evolved is not only have some surgery. It not only is a comprehensive and en procedures become obsolete, but to some cyclopedic dissertation on the subject, but it is degree gynecologic surgeons have themselves written by the young leaders in the field. This is become obsolete.