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Many thousands of international graduate physicians from diverse medical specialties serve the health care needs of the United States, and one-in-four psychiatry residents are international medical graduates.

International Medical Graduate Physicians: A Guide to Training was created by prominent leaders in academic psychiatry to support the success of these international medical graduate physicians as they complete their clinical training and enter the physician workforce in this country. This insightful title has been developed as a valuable resource, filled with key information and personal narratives, to foster optimal wellbeing and decisionmaking of IMG physicians as they navigate their careers. The text is thorough in scope and replete with perspectives, reflections, and tailored guidance for the reader. Many of the chapters are based on the direct and diverse life experiences of the authors. A unique and thoughtful contribution to the literature, this Guide will be of great value to international physicians and to their teachers and supervisors in psychiatry as well as other specialties of medicine.

In 1978, Fred Hoyle proposed that interstellar comets carrying several viruses landed on Earth as part of the panspermia hypotheses. With respect to life, the origin of homochirality on Earth has been the greatest mystery because life cannot exist without molecular asymmetry. Many scientists have proposed several possible hypotheses to answer this long-standing L-D question.

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Previously, Martin Gardner raised the question about mirror symmetry and broken mirror symmetry in terms of the homochirality question in his monographs (1964 and 1990). Possible scenarios for the L-D issue can be categorized into (i) Earth and exoterrestrial origins, (ii) by-chance and necessity mechanisms, and (iii) mirror-symmetrical and non-mirror-symmetrical forces as physical and chemical origins. These scenarios should involve further great amplification mechanisms, enabling a pure L- or D-world.

This Special Issue addresses relations between tourism activities, smart specialization strategies, and sustainable development at different territorial levels, including the local, regional, national, and international. Framed by appropriate conceptual frameworks to define the contemporary dynamics of innovation in tourism, case studies supported by advanced quantitative methods and developed in rural and urban areas of Asia, Europe, and Africa are presented and discussed. The concept of smart specialization inspires the formulation of regional innovation policies and strategies, emphasizing the importance of endogenous resources and existing territorial capabilities. By exploring the diversity and variety of each economy to develop inter-sectoral relations, this approach aims at promoting the creation of spillover effects of innovation processes supported by adequate key enabling technologies, potentially leading to the sustainable development of places, regions, and countries. As an activity that mobilizes contributions from different economic sectors, tourism may play a central role in such strategies. As

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described and discussed in this Special Issue, aspects related to the creative sectors of economies, information and communication technologies, traditional products and lifestyles, food production, or diverse cultural values can be mobilized to generate innovative and sustainable solutions for tourism development.

The automotive industry appears close to substantial change engendered by “self-driving” technologies. This technology offers the possibility of significant benefits to social welfare—saving lives; reducing crashes, congestion, fuel consumption, and pollution; increasing mobility for the disabled; and ultimately improving land use. This report is intended as a guide for state and federal policymakers on the many issues that this technology raises.

This work provides comprehensive and contemporary information on the essential concepts and terms in video and television, including coverage of test and measurement procedures.

This handbook provides an overview of the research on the changing nature of work and workers by marshalling interdisciplinary research to summarize the empirical evidence and provide documentation of what has actually changed. Connections are explored between the changing nature of work and macro-level trends in technological change, income inequality, global labor markets, labor unions, organizational forms, and skill polarization, among others. This edited volume also reviews evidence for changes in workers, including generational change (or lack thereof), that has accumulated across domains. Based on documented

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changes in work and worker behavior, the handbook derives implications for a range of management functions, such as selection, performance management, leadership, workplace ethics, and employee well-being. This evaluation of the extent of changes and their impact gives guidance on what best practices should be put in place to harness these developments to achieve success.

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Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

Most lifting bodies, or "flying bathtubs" as they were called, were so ugly only an engineer could love them, and yet, what an elegant way to keep wings from burning off in supersonic flight between earth and orbit. Working in their spare time (because they couldn't initially get official permission), Dale Reed and his team of engineers demonstrated the potential of the design that led to the Space Shuttle. Wingless Flight takes us behind the scenes with just the right blend of technical information and fascinating detail (the crash of M2-F2 found new life as the opening credit for TV's "The Six

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Million Dollar Man"). The flying bathtub, itself, is finding new life as the proposed escape-pod for the Space Station.

This publication contains a number of papers which consider the public health role of vaccines in improving the health of the world's populations, and looks at the challenges of using immunisation to combat emerging and re-emerging diseases. Issues discussed include the innovative use of vaccines against diseases such as meningococcal infection in Africa, Haemophilus influenza type b, varicella, and hepatitis, efforts to develop a new generation of vaccines against cholera and typhoid, shigella and Helicobacter pylori, as well as developments in the quest for vaccines against tuberculosis, HIV/AIDS, dengue, malaria, and hookworm. It also deals with the use of vaccines to fight bioterrorism attacks; regulatory and safety issues; financing issues, impact of health sector reform and the sustainability of immunisation programmes.

PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

Brought to you by the creator of numerous bestselling handbooks, the Handbook of Energy Efficiency and Renewable Energy provides a thorough grounding in the analytic techniques and technological developments that underpin renewable energy use and environmental protection. The handbook emphasizes the engineering aspects of energy conservation and renewable energy. Taking a world view, the editors discuss key topics

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underpinning energy efficiency and renewable energy systems. They provide content at the forefront of the contemporary debate about energy and environmental futures. This is vital information for planning a secure energy future. Practical in approach, the book covers technologies currently available or expected to be ready for implementation in the near future. It sets the stage with a survey of current and future world-wide energy issues, then explores energy policies and incentives for conservation and renewable energy, covers economic assessment methods for conservation and generation technologies, and discusses the environmental costs of various energy generation technologies. The book goes on to examine distributed generation and demand side management procedures and gives a perspective on the efficiencies, economics, and environmental costs of fossil and nuclear technologies. Highlighting energy conservation as the cornerstone of a successful national energy strategy, the book covers energy management strategies for industry and buildings, HVAC controls, co-generation, and advances in specific technologies such as motors, lighting, appliances, and heat pumps. It explores energy storage and generation from renewable sources and underlines the role of infrastructure security and risk analysis in planning future energy transmission and storage systems. These features and more make the Handbook of Energy Efficiency and Renewable Energy the tool for designing the energy sources of the future.

This analysis of the United States health care system reviews developments in organization and governance, health financing, health care provision, health reforms, and health system performance. The U.S. system has both considerable strengths and notable weaknesses. It has a large and well-trained health workforce, a wide range of high-quality medical

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specialists as well as secondary and tertiary institutions, a robust health sector research program, and, for selected services, among the best medical outcomes in the world. But it also suffers from incomplete coverage of its citizenry, health expenditure levels per person far exceeding all other countries, poor objective and subjective indicators of quality and outcomes, and an unequal distribution of resources and outcomes across the country and among different population groups. Because of the adoption of the Affordable Care Act in 2010, and subsequent revisions to it, the U.S. is facing a period of enormous change. There is a great need to improve coverage and improve equity, better ensure quality outcomes, and find ways to better control expenditures. Health Systems in Transition: USA provides an in-depth discussion of these issues and a thorough review of the U.S. health care system. A guide to electrical isolation and switching. It is part of a series of manuals designed to amplify the particular requirements of a part of the 16th Edition Wiring Regulations. Each of the guides is extensively cross-referenced to the Regulations thus providing easy access. Some Guidance Notes contain information not included in the 16th Edition but which was included in earlier editions of the IEE Wiring Regulations. All the guides have been updated to align with BS 7671:2001.

In this book, a number of innovative fault diagnosis algorithms in recently years are introduced. These methods can detect failures of various types of system effectively, and with a relatively high significance.

A journal paper for all the cat lovers out there. Featuring anthropomorphic cats that play and act all cute, this notebook is bound to be the perfect gift for a cat person. Journal Paper blank notebook 7.5x9.25 inches 165 pages

In this Special Issue on human health engineering, we invited submissions exploring recent contributions to the field of

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human health engineering, which is the technology used for monitoring the physical or mental health status of individuals in a variety of applications. Contributions focused on sensors, wearable hardware, algorithms, or integrated monitoring systems. We organized the different papers according to their contributions to the main aspects of the monitoring and control engineering scheme applied to human health applications, including papers focusing on measuring/sensing physiological variables, contributions describing research on the modelling of biological signals, papers highlighting health monitoring applications, and finally examples of control applications for human health. In comparison to biomedical engineering, the field of human health engineering also covers applications on healthy humans (e.g., sports, sleep, and stress) and thus not only contributes to develop technology for curing patients or supporting chronically ill people, but also more generally for disease prevention and optimizing human well-being.

This study covers impact response, damage tolerance and failure of fibre-reinforced composite materials and structures. Materials development, analysis and prediction of structural behaviour and cost-effective design all have a bearing on the impact response of composites and this book brings together for the first time the most comprehensive and up-to-date research work from leading international experts. State of the art analysis of impact response, damage tolerance and failure of FRC materials Distinguished contributors provide expert analysis of the most recent materials and structures Valuable tool for R&D engineers, materials scientists and designers This book collects the articles published in the Special Issue "Polymeric Materials: Surfaces, Interfaces and Bioapplications". It shows the advances in polymeric materials, which have tremendous applications in agricultural films, food packaging, dental restoration, antimicrobial

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systems, and tissue engineering. These polymeric materials are presented as films, coatings, particles, fibers, hydrogels, or networks. The potential to modify and modulate their surfaces or their content by different techniques, such as click chemistry, ozonation, breath figures, wrinkle formation, or electrospray, are also explained, taking into account the relationship between the structure and properties in the final application. Moreover, new trends in the development of such materials are presented, using more environmental friendly and safe methods, which, at the same time, have a high impact on our society.

Metabolomics is increasingly being used to explore the dynamic responses of living systems in biochemical research. The complexity of the metabolome is outstanding, requiring the use of complementary analytical platforms and methods for its quantitative or qualitative profiling. In alignment with the selected analytical approach and the study aim, sample collection and preparation are critical steps that must be carefully selected and optimized to generate high-quality metabolomic data. This book showcases some of the most recent developments in the field of sample preparation for metabolomics studies. Novel technologies presented include electromembrane extraction of polar metabolites from plasma samples and guidelines for the preparation of biospecimens for the analysis with high-resolution 2 magic-angle spinning nuclear magnetic resonance (HR- 2 MAS NMR). In the following chapters, the spotlight is on sample preparation approaches that have been optimized for diverse bioanalytical applications, including the analysis of cell lines, bacteria, single spheroids, extracellular vesicles, human milk, plant natural products and forest trees.

The international multi-topic conference IMTIC 2008 was held in Pakistan during April 11–12, 2008. It was a joint

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venture between Mehran University, Jamshoro, Sindh and Aalborg University, Esbjerg, Denmark. Apart from the two-day main event, two workshops were also held: the Workshop on Creating Social Semantic Web 2.0 Information Spaces and the Workshop on Wireless Sensor Networks. Two hundred participants registered for the main conference from 24 countries and 43 papers were presented; the two workshops had overwhelming support and over 400 delegates registered. IMTIC 2008 served as a platform for international scientists and the engineering community in general, and in particular for local scientists and the engineering community to share and cooperate in various fields of interest. The topics presented had a reasonable balance between theory and practice in multidisciplinary topics. The conference also had excellent topics covered by the keynote speeches keeping in view the local requirements, which served as a stimulus for students as well as experienced participants. The Program Committee and various other committees were experts in their areas and each paper went through a double-blind peer review process. The conference received 135 submissions of which only 46 papers were selected for presentation: an acceptance rate of 34%.

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