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BYRON JAYLIN

Handbook of Surface Plasmon Resonance John Wiley & Sons
 An interdisciplinary research unit consisting of 30 teams in the natural, economic and social sciences analyzed biodiversity and ecosystem services of a mountain rainforest ecosystem in the hotspot of the tropical Andes, with special reference to past, current and future environmental changes. The group assessed ecosystem services using data from ecological field and scenario-driven model experiments, and with the help of comparative field surveys of the natural forest and its anthropogenic replacement system for agriculture. The book offers insights into the impacts of environmental change on various service categories mentioned in the Millennium Ecosystem Assessment (2005): cultural, regulating, supporting and provisioning ecosystem services. Examples focus on biodiversity of plants and animals including trophic networks, and abiotic/biotic parameters such as soils, regional climate, water, nutrient and sediment cycles. The types of threats considered include land use and climate changes, as well as atmospheric fertilization. In terms of regulating and provisioning services, the emphasis is primarily on water regulation and supply as well as climate regulation and carbon sequestration. With regard to provisioning services, the synthesis of the book provides science-based recommendations for a sustainable land use portfolio including several options such as forestry, pasture management and the practices of indigenous peoples. In closing, the authors show how they integrated the local society by pursuing capacity building in compliance with the CBD-ABS (Convention on Biological Diversity - Access and Benefit Sharing), in the form of education and knowledge transfer for application.

Aviation Week & Space Technology Royal Society of Chemistry

Profiling hundreds of space programmes and their different technologies, Jane's Space Directory enables you to identify thousands of different commercial and defence applications. Key objectives, developments and technical specifications of available vehicles and systems are reviewed, including the new generation of launch vehicles. Structured around the categorisation of functions and presented for quick comparison and evaluation, each entry comes with accompanying illustrations. Supplier and manufacturer listings help support your market research and procurement requirements. Key content includes: Government and non-government space programmes; Global space industry directory; Civilian operations; Orbital and suborbital launch vehicles; Propulsion; Commercial and military satellites; Planetary

and space science; Human space flight; Launch listings; Contractors. For a complete listing of aerospace organisations and personnel around the globe see Jane's International ABC Aerospace Directory.

The Aptamer Handbook John Wiley & Sons

An important working resource for engineers and researchers involved in the design, development, and implementation of signal processing systems. The last decade has seen a rapid expansion of the use of field programmable gate arrays (FPGAs) for a wide range of applications beyond traditional digital signal processing (DSP) systems. Written by a team of experts working at the leading edge of FPGA research and development, this second edition of FPGA-based Implementation of Signal Processing Systems has been extensively updated and revised to reflect the latest iterations of FPGA theory, applications, and technology. Written from a system-level perspective, it features expert discussions of contemporary methods and tools used in the design, optimization and implementation of DSP systems using programmable FPGA hardware. And it provides a wealth of practical insights—along with illustrative case studies and timely real-world examples—of critical concern to engineers working in the design and development of DSP systems for radio, telecommunications, audio-visual, and security applications, as well as bioinformatics, Big Data applications, and more. Inside you will find up-to-date coverage of: FPGA solutions for Big Data Applications, especially as they apply to huge data sets The use of ARM processors in FPGAs and the transfer of FPGAs towards heterogeneous computing platforms The evolution of High Level Synthesis tools—including new sections on Xilinx's HLS Vivado tool flow and Altera's OpenCL approach Developments in Graphical Processing Units (GPUs), which are rapidly replacing more traditional DSP systems FPGA-based Implementation of Signal Processing Systems, 2nd Edition is an indispensable guide for engineers and researchers involved in the design and development of both traditional and cutting-edge data and signal processing systems. Senior-level electrical and computer engineering graduates studying signal processing or digital signal processing also will find this volume of great interest.

Japanese Technical Periodical Index Edizioni Nuova Cultura
 Surface plasmon resonance (SPR) plays a dominant role in real-time interaction sensing of biomolecular binding events, this book provides a total system description including optics, fluidics and sensor surfaces for a wide researcher audience.

NTZ-Communications Journal Bloomsbury Publishing

The Handbook of Unmanned Aerial Vehicles is a reference text for the academic and research communities, industry, manufacturers, users, practitioners, Federal Government, Federal and State Agencies, the private sector, as well as all organizations

that are and will be using unmanned aircraft in a wide spectrum of applications. The Handbook covers all aspects of UAVs, from design to logistics and ethical issues. It is also targeting the young investigator, the future inventor and entrepreneur by providing an overview and detailed information of the state-of-the-art as well as useful new concepts that may lead to innovative research. The contents of the Handbook include material that addresses the needs and 'know how' of all of the above sectors targeting a very diverse audience. The Handbook offers a unique and comprehensive treatise of everything one needs to know about unmanned aircrafts, from conception to operation, from technologies to business activities, users, OEMs, reference sources, conferences, publications, professional societies, etc. It should serve as a Thesaurus, an indispensable part of the library for everyone involved in this area. For the first time, contributions by the world's top experts from academia, industry, government and the private sector, are brought together to provide unique perspectives on the current state-of-the-art in UAV, as well as future directions. The Handbook is intended for the expert/practitioner who seeks specific technical/business information, for the technically-oriented scientists and engineers, but also for the novice who wants to learn more about the status of UAV and UAV-related technologies. The Handbook is arranged in a user-friendly format, divided into main parts referring to: UAV Design Principles; UAV Fundamentals; UAV Sensors and Sensing Strategies; UAV Propulsion; UAV Control; UAV Communication Issues; UAV Architectures; UAV Health Management Issues; UAV Modeling, Simulation, Estimation and Identification; MAVs and Bio-Inspired UAVs; UAV Mission and Path Planning; UAV Autonomy; UAV Sense, Detect and Avoid Systems; Networked UAVs and UAV Swarms; UAV Integration into the National Airspace; UAV-Human Interfaces and Decision Support Systems; Human Factors and Training; UAV Logistics Support; UAV Applications; Social and Ethical Implications; The Future of UAVs. Each part is written by internationally renowned authors who are authorities in their respective fields. The contents of the Handbook supports its unique character as a thorough and comprehensive reference book directed to a diverse audience of technologists, businesses, users and potential users, managers and decision makers, novices and experts, who seek a holistic volume of information that is not only a technical treatise but also a source for answers to several questions on UAV manufacturers, users, major players in UAV research, costs, training required and logistics issues.

Moving Forward EU-India Relations Ihs Global Incorporated
 Relations between the European Union (EU) and India have been growing in quantity and quality in the last two decades. Alongside the economic dimension, the political and security elements of the relationship have emerged as the most promising area for

further collaboration between the two sides. This volume brings together analyses and recommendations on EU-India security relations in the fields of: (i) maritime security and freedom of navigation; (ii) cyber security and data protection; (iii) space policy and satellite navigation; (iv) defence cooperation. The chapters have been written by a select pan-European and Indian group of experts tasked by the Rome-based Istituto Affari Internazionali (IAI) and the Mumbai-based Gateway House (GH) in the framework of the EU-India Think Tank Twinning Initiative – a public diplomacy project aimed at connecting research institutions in Europe and India funded by the EU. The book provides the reader with original research and innovative insights into how to move forward EU-India relations. It will be essential reading for scholars and policy makers interested in the subject.

Jane's International Defense Review Artech House

This book explores European security and defense R&D policy, unveiling the strategic, industrial, institutional and ideational sources of the European Commission's military research initiative. Starting from a well-defined empirical epicentre—the rise of non-civilian R&D priorities in the European Union—this book covers interrelated themes and topics such as approaches to arms production and R&D collaboration relationships between European R&D-related institutions technology and research foundations of European security policy past and present European armament collaborations transatlantic R&D collaboration the militarization of border security. Divided into 5 sections, the enclosed chapters explore the EU technology and innovation policy in regards to security, industrial competitiveness and military capabilities. The terrorist attacks in the US on September 11, 2001 provided a window of opportunity for the introduction of security as a distinct European R&D priority. In fact, since 2002, the Preparatory Action for Security Research (PASR) has funded 45 million euros to 39 research consortia to conduct security R&D. While the idea of pooling defense research efforts and programmes in Europe is not new, the establishment of institutions like the European Defense Agency (EDA) are a major step into institutionalizing European agencies involvement in supporting defense technology research. It is against this backdrop of policy developments that this book is positioned, in addition to addressing some of the political, economic, industrial and philosophical questions that arise. Featuring contributions from a variety of academic fields and industries, this book will be of interest to scholars, researchers, students and policy makers in the fields of security policy, international relations, innovation, European studies and military studies.

Satellite Communications and Navigation Systems Springer

The underlying technology and the range of test parameters available are evolving rapidly. The primary advantage of POCT is the convenience of performing the test close to the patient and the speed at which test results can be obtained, compared to sending a sample to a laboratory and waiting for results to be returned. Thus, a series of clinical applications are possible that can shorten the time for clinical decision-making about additional testing or therapy, as delays are no longer caused by preparation of clinical samples, transport, and central laboratory analysis. Tests in a POC format can now be found for many medical disciplines including endocrinology/diabetes, cardiology, nephrology, critical care, fertility, hematology/coagulation, infectious disease and microbiology, and general health screening. Point-of-care testing (POCT) enables health care personnel to perform clinical laboratory testing near the patient. The idea of conventional and POCT laboratory services presiding within a hospital seems contradictory; yet, they are, in fact, complementary: together POCT and central laboratory are important for the optimal functioning of diagnostic processes. They complement each other, provided that a dedicated POCT coordination integrates the quality assurance of POCT into the overall quality management system of the central laboratory. The motivation of the third edition of the POCT book from Lippa/Junker, which is now also available in English, is to explore and describe clinically relevant analytical techniques, organizational concepts for application and future perspectives of POCT. From descriptions of the opportunities that POCT can provide to the limitations that clinician's must be cautioned about, this book provides an overview of the many aspects that challenge those who choose to implement POCT. Technologies, clinical applications, networking issues and quality regulations are described as well as a survey of future technologies that are on

the future horizon. The editors have spent considerable efforts to update the book in general and to highlight the latest developments, e.g., novel POCT applications of nucleic acid testing for the rapid identification of infectious agents. Of particular note is also that a cross-country comparison of POCT quality rules is being described by a team of international experts in this field.

F & S Index United States Annual Luxembourg : Amt für Amtl. Veröff. d. Europ. Gemeinschaften

In *The Aptamer Handbook*, leading scientists from academia as well as biotech and pharma companies introduce the revolutionary concept of designing RNA and DNA oligonucleotides with novel functions by in vitro selection. These functions comprise high affinity binding (aptamers), catalytic activity (ribozymes and deoxyribozymes) or combinations of binding and catalytic properties (aptazymes). Basic concepts and technologies describing in detail how these functional oligonucleotides can be identified are presented. Numerous examples demonstrate the versatility of in vitro selected oligonucleotides. Special emphasis has been put on a section that shows the broad applicability of aptamers, e. g. in target validation, for analytics, or as new therapeutics. This first overview in the field is of prime interest for a broad audience of scientists both in academia and in industry who wish to expand their knowledge on the potential of new oligonucleotide functions and their applications.

Jane's Space Systems and Industry Ihs Global Incorporated

Identify commercial and defence applications of space technology. Review key objectives, developments and technical specifications of avail. vehicles and systems.

Supplier/manufacturer listings support market research and procurement requirements. Space operators/customers are listed

Jane's Defence Industry John Wiley & Sons

Relations between the European Union (EU) and the Gulf Cooperation Council (GCC) are at a crossroads. After the derailment of the negotiations for the Free Trade Agreement (FTA) in 2008, the cooperation between the two regional blocs has remained low-key in a number of different areas, while the unprecedented changes that have taken place in North Africa and the Middle East, the common neighbourhood of the EU and the GCC, have not led to a renewed, structured cooperation on foreign and security policy issues. This volume addresses the shortcomings and potential of EU-GCC relations by taking stock of their past evolution and by advancing policy recommendations as to how to revamp this strategic cooperation. In this light, it highlights the areas where greater room for manoeuvre exists in order to enhance EU-GCC relations, discusses the instruments available and sheds light on the features of the regional and international context that are likely to significantly influence the new phase in the mutual relation between the two blocs. The book is the result of the research conducted in the framework of the project 'Sharaka - Enhancing Understanding and Cooperation in EU-GCC Relations' co-funded by the European Commission.

ESA Bulletin Springer

Satellite Communications and Navigation Systems publishes the proceedings of the 2006 Tyrrhenian International Workshop on Digital Communications. The book focuses on the integration of communication and navigation systems in satellites.

Handbook of Unmanned Aerial Vehicles Springer Science & Business Media

The topic of thin films is an area of increasing importance in materials science, electrical engineering and applied solid state physics; with both research and industrial applications in microelectronics, computer manufacturing, and physical devices. Advanced, high-performance computers, high-definition TV, broadband imaging systems, flat-panel displays, robotic systems, and medical electronics and diagnostics are a few examples of the miniaturized device technologies that depend on the utilization of thin film materials. This book presents an in-depth overview of the novel developments made by the scientific leaders in the area of modern dielectric films for advanced microelectronic applications. It contains clear, concise explanations of material science of dielectric films and their problem for device operation, including high-k, low-k, medium-k dielectric films and also specific features and requirements for dielectric films used in the packaging technology. A broad range of related topics are covered, from physical principles to design, fabrication, characterization, and applications of novel dielectric films.

Jane's Space Directory Edizioni Nuova Cultura

This book is the fourth edition of a highly practical guide to the leading cases in European Competition Law. It explores the application of Article 101 TFEU, Article 102 TFEU and the European Merger Regulation, as well as the public and private enforcement of Competition Law. In addition, it reviews the intersection between Competition Law and Intellectual Property Rights and the application of Competition Law to State action. Each chapter outlines the relevant laws, regulations and guidelines for each topic. Within this framework, cases are reviewed in summary form, accompanied by analysis and commentary. "This book should be in the library of every competition law practitioner and academic. The summary of cases is first class. But what makes it really stand out is the quality of the commentary and the selection of the material which includes not only the most important European judgements and decision but also some of the leading cases from the US and European Member States." Ali Nikpay, Gibson, Dunn & Crutcher "The study of EU Competition law requires the analysis and understanding of a number of increasingly complex and lengthy European Commission and European Court decisions. Through the provision of case summaries, excerpts from the important passages and concise commentary linking these decisions to other key case law and Commission documents, this unique and impressive book provides the student and practitioner of EU competition law with an extremely clear and useful introduction to these leading decisions." Dr Kathryn McMahon, Associate Professor, School of Law, University of Warwick "The Guide is an invaluable tool for both students and practitioners. It provides a compact overview on the fundamental cases and highlights the essential problems in a clear and sharp analysis." Dr Christoph Voelk, Antitrust Practice Group, McDermott, Will & Emery LLP, Brussels "This edition will be especially valuable to competition law specialists abroad who are interested in the jurisprudence and policy of the European Union and its member states. Familiarity with the European regime is essential for proficiency in competition law today, and this volume provides an excellent foundation." William E Kovacic, Global Competition Professor of Law and Policy, George Washington University Law School, Former Chairman, US Federal Trade Commission "A perfect reference for students of competition law, giving them a kick start when searching for EU case law on a specific subject." Magnus Strand, University of Uppsala, Sweden

D&B Principal International Businesses Springer Science & Business Media

Thin-film solar cells are either emerging or about to emerge from the research laboratory to become commercially available devices finding practical various applications. Currently no textbook outlining the basic theoretical background, methods of fabrication and applications currently exist. Thus, this book aims to present for the first time an in-depth overview of this topic covering a broad range of thin-film solar cell technologies including both organic and inorganic materials, presented in a systematic fashion, by the scientific leaders in the respective domains. It covers a broad range of related topics, from physical principles to design, fabrication, characterization, and applications of novel photovoltaic devices.

Jane's Space Directory, 1999-2000 Springer

The Doppler Effect can be thought of as the change in frequency of a wave for an observer moving relative to the source of the wave. In radar, it is used to measure the velocity of detected objects. This highly practical resource provides thorough working knowledge of the micro-Doppler effect in radar, including its principles, applications and implementation with MATLAB codes. The book presents code for simulating radar backscattering from targets with various motions, generating micro-Doppler signatures, and analyzing the characteristics of targets. In this title, professionals will find detailed descriptions of the physics and mathematics of the Doppler and micro-Doppler effect. The book provides a wide range of clear examples, including an oscillating pendulum, a spinning and precession heavy top, rotating rotor blades of a helicopter, rotating wind-turbine blades, a person walking with swinging arms and legs, a flying bird, and movements of quadruped animals.

UK Defence Statistics John Wiley & Sons

Microwave Journal

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