

Química General Navarro Delgado

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La cultura digital y el ritmo frenético del desarrollo tecnológico han transformado enormemente la documentoscopia, que en los últimos años ha tenido que enfrentarse a numerosos retos para seguir siendo una disciplina esencial, al servicio de la Justicia. Muchos de los avances de las últimas décadas, vinculados a los documentos de identidad o seguridad (como los certificados y firmas digitales) han generado un nuevo frente para los especialistas en documentoscopia: la falsedad de los documentos electrónicos. Ese nuevo escenario requiere la aplicación de nuevos métodos y medidas para seguir velando por la seguridad documental. En este libro se realiza una revisión de la profesión, se recogen algunos de los nuevos retos y se plantean soluciones que puedan tener aplicación en el ámbito del peritaje científico y forense; un área que exige cada vez una mayor actualización y especialización técnica. Esta obra recoge las aportaciones de analistas forenses y de profesionales especializados en las ciencias del grafismo y del documento de todo el mundo; tanto del ámbito académico como profesional. Este libro pretende ser un espacio de consulta en el que poder conocer algunas soluciones y avances que contribuyan a seguir velando por la autenticidad documental. Es, al mismo tiempo, un espacio en el que se integran y difunden conocimientos científicos sobre la documentoscopia, la pericia caligráfica o grafotécnica.

This book is composed of a selection of articles from The 2021 World Conference on Information Systems and Technologies (WorldCIST'21), held online between 30 and 31 of March and 1 and 2 of April 2021 at Hangra de Heroísmo, Terceira Island, Azores, Portugal. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern information systems and technologies research, together with their technological development and applications. The main topics covered are: A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human-computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; N) Technologies for Biomedical Applications.

"IPCS, International Programme on Chemical Safety"--Cover.

La presente obra, Química Aplicada a la Ingeniería, cubre los requerimientos

docentes de Química de los planes de estudio de las titulaciones de Grado en Ingeniería Eléctrica, Ingeniería Electrónica Industrial y Automática, Ingeniería Mecánica e Ingeniería en Tecnologías Industriales, impartidas en la Escuela Técnica Superior de Ingenieros Industriales de la UNED. Sus contenidos temáticos se corresponden con los de un curso básico de Química Aplicada. Al planificar la obra se ha buscado un equilibrio, por una parte, entre la profundización en el estudio de los principales conceptos de química, que en gran medida ya fueron conocidos por los estudiantes durante el bachillerato y que les son indispensables para afrontar con éxito estudios posteriores más avanzados, y por otra la exposición más novedosa de una serie de temas de carácter tecnológico relativo al conocimiento de las propiedades y aplicaciones de los productos químicos de interés industrial, tanto de tipo básico como de sus derivados, sin olvidar los recursos naturales de los que proceden. Los principales básicos de la Ingeniería Química se presentan en esta obra de forma elemental. Al final de cada tema se incluyen una serie de ejercicios de autoevaluación con su resolución detallada.

The House Across the Street is a story about a young boy who watches his childhood playground, in the rurals of Mobile, Alabama, become a beautiful Victorian estate. Young Nelson spends a lifetime trying to acquire, not only a home, but also a special someone who lives inside. Youll watch him grow into a mature man and take on responsibilities he thought was unattainable. You will be inspired by his perseverance and tenacity against all odds to be a man that every parent would be proud of.

V. 1: Asia. Editors: Koen Kusters and Brian Belcher; V. 2: Africa. Editors: Terry Sunderland and Ousseynou Ndoeye.

This book is open access under a CC BY 4.0 license. This book provides a fresh, updated and science-based perspective on the current status and prospects of the diverse array of topics related to the potato, and was written by distinguished scientists with hands-on global experience in research aspects related to potato. The potato is the third most important global food crop in terms of consumption. Being the only vegetatively propagated species among the world's main five staple crops creates both issues and opportunities for the potato: on the one hand, this constrains the speed of its geographic expansion and its options for international commercialization and distribution when compared with commodity crops such as maize, wheat or rice. On the other, it provides an effective insulation against speculation and unforeseen spikes in commodity prices, since the potato does not represent a good traded on global markets. These two factors highlight the underappreciated and underrated role of the potato as a dependable nutrition security crop, one that can mitigate turmoil in world food supply and demand and political instability in some developing countries. Increasingly, the global role of the potato has expanded from a profitable crop in developing countries to a crop providing income and nutrition security in developing ones. This book will appeal to academics and students of crop sciences, but also policy makers and other stakeholders involved in the potato and its contribution to humankind's food security.

The world is full of plants and animals that have their own defenses, producing various substances in their daily fight against bacteria, fungi, or other agents. These products are alternatives to conventional antimicrobials that have a poor reputation with consumers. Many of these compounds are well known; however, the multiple types of structures together with the variable responses depending of the type of biocontrol needed in a wide range of applications, such as clinical, agricultural, general hygiene, and food, necessitates the continuous search for

specific applications and the continuous study of how to use these substances. The present book provides a summary of reviews and original research works that explore the multiple alternatives for the use of these compounds.

During the recent decades, social, political and academic endeavours have been made to improve environmental quality and reduce pollution. In particular, the ocean, sea and coastal areas show varying degrees of impact from the multiple human activities carried out in the terrestrial as well as in the aquatic environment. Ecology is a science which studies the relationship between organisms and the surrounding environment and in the modern era, the marine world is getting increasing attention. For centuries it has been the final reservoir of human garbage; later it became an oil farm with a concomitant increase of coastal population growth and unplanned growth of the fishing industry and the increasing use of sea routes for cargo transport and recreational uses (cruises). All this led to rising contamination with negative effects on biota and even human health. It is then imperative to know the current situation of the world's oceans: that is the main purpose of this book, to document at a glance the latest research in the field of ocean pollution.

Este libro se ha concebido como texto base para la asignatura Introducción a la Experimentación en Química Física y Química Analítica del Grado en Química, con el objetivo de proporcionar al estudiante una base sólida y equilibrada de conocimientos físicoquímicos y analíticos, a la vez que desarrolla sus habilidades prácticas. De esta forma, se introduce al estudiante en el manejo correcto de la instrumentación propia de un laboratorio de Química Física y de Química Analítica, y en la resolución, de forma práctica, de los problemas que en ellos se plantean.

"Based on extensive archival research in Peru, Spain, and Italy, Making Medicines in Early Colonial Lima, Peru examines how apothecaries in Lima were trained, ran their businesses, traded medicinal products, prepared medicines, and found their place in society. In the book, Newson argues that apothecaries had the potential to be innovators in science, especially in the New World where they encountered new environments and diverse healing traditions. However, it shows that despite experimental tendencies among some apothecaries, they generally adhered to traditional humoral practices and imported materia medica from Spain rather than adopt native plants or exploit the region's rich mineral resources. This adherence was not due to state regulation, but reflected the entrenchment of humoral beliefs in popular thought and their promotion by the Church and Inquisition"--Provided by publisher.

This book is composed by the papers accepted for presentation and discussion at The 2019 International Conference on Information Technology & Systems (ICITS'20), held at the Universidad Distrital Francisco José de Caldas, in Bogotá, Colombia, on 5th to 7th February 2020. ICIST is a global forum for researchers and practitioners to present and discuss recent findings and innovations, current trends, professional experiences and challenges of modern information technology and systems research, together with their technological development and applications. The main topics covered are: information and knowledge management; organizational models and information systems; software and systems modelling; software systems, architectures, applications and tools; multimedia systems and applications; computer networks, mobility and pervasive systems; intelligent and decision support systems; big data analytics and applications; human-computer interaction; ethics, computers & security; health informatics; information technologies in education.

This book contains the summaries of the "Innovation in Pharmacy: Advances and Perspectives" that took place in Salamanca (Spain) in September 2018. The early science of chemistry and microbiology were the source of most drugs until the revolution of genetic engineering in the mid 1970s. Then biotechnology made available novel protein agents such as interferons, blood factors and monoclonal antibodies that have changed the modern pharmacy. Over the past year, a new pharmacy of oligonucleotides has emerged from the

science of gene expression such as RNA splicing and RNA interference. The ability to design therapeutic agents from genomic sequences will transform treatment for many diseases. The science that created this advance and its future promise will be discussed. Phillip Allen Sharp is an American geneticist and molecular biologist who co-discovered RNA splicing. He shared the 1993 Nobel Prize in Physiology or Medicine with Richard J. Roberts for "the discovery that genes in eukaryotes are not contiguous strings but contain introns, and that the splicing of messenger RNA to delete those introns can occur in different ways, yielding different proteins from the same DNA sequence. He works in Institute Professor Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology (MIT), Cambridge, MA, US. Este libro recoge los resúmenes de la «Innovation in Pharmacy: Advances and Perspectives» que tuvo lugar en Salamanca (España) en septiembre de 2018. La ciencia primitiva de la química y la microbiología fue la fuente de la mayoría de las drogas hasta la revolución de la ingeniería genética a mediados de la década de 1970. Luego, la biotecnología puso a disposición agentes proteínicos novedosos como interferones, factores sanguíneos y anticuerpos monoclonales que han cambiado la farmacia moderna. Durante el año pasado, surgió una nueva farmacia de oligonucleótidos a partir de la ciencia de la expresión génica, como el empalme de ARN y la interferencia de ARN. La capacidad de diseñar agentes terapéuticos a partir de secuencias genómicas transformará el tratamiento de muchas enfermedades. La ciencia que creó este avance y su promesa futura será discutida. Phillip Allen Sharp es un genetista y biólogo molecular estadounidense que co-descubrió el empalme de ARN.

Compartió el Premio Nobel de 1993 en Fisiología o Medicina con Richard J. Roberts por "el descubrimiento de que los genes en eucariotas no son cadenas contiguas, sino que contienen intrones, y que el empalme del ARN mensajero para eliminar esos intrones puede ocurrir de diferentes maneras, produciendo diferentes proteínas de la misma secuencia de ADN. Trabaja en el Instituto Profesor Koch Institute for Integrative Cancer Research, Instituto Tecnológico de Massachusetts (MIT), Cambridge, MA, EE. UU.

Chemical education is essential to everybody because it deals with ideas that play major roles in personal, social, and economic decisions. This book is based on three principles: that all aspects of chemical education should be associated with research; that the development of opportunities for chemical education should be both a continuous process and be linked to research; and that the professional development of all those associated with chemical education should make extensive and diverse use of that research. It is intended for: pre-service and practising chemistry teachers and lecturers; chemistry teacher educators; chemical education researchers; the designers and managers of formal chemical curricula; informal chemical educators; authors of textbooks and curriculum support materials; practising chemists and chemical technologists. It addresses: the relation between chemistry and chemical education; curricula for chemical education; teaching and learning about chemical compounds and chemical change; the development of teachers; the development of chemical education as a field of enquiry. This is mainly done in respect of the full range of formal education contexts (schools, universities, vocational colleges) but also in respect of informal education contexts (books, science centres and museums).

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 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.

This monograph presents the state of art of the geologic knowledge about the Spanish coast obtained through scientific research in the last 30 years. From a general point of view, coasts are the most quickly changing systems of the Earth. This is critical, since many human resources, such as the main part of economic and social activities, are located in the coastal areas. Especially in the case of Spain these coasts include cities, wide industrial areas (including harbor complexes), important ecologic systems, and our main economic resource: tourism. Understanding the dynamic functioning of each element of this coast is vital for correct future coastal management, so as to solve problems derived from bad plans developed in the last decades of the twentieth century. This is a valuable text for advanced graduate students and coastal researchers, which connects the specific dynamic functioning of the main Spanish coastal environments and their relationships with human activities.

Occupational Safety and Hygiene II contains selected papers from the International Symposium on Occupational Safety and Hygiene (SHO2014, Guimarães, Portugal, 13-14 February 2014), which was organized by the Portuguese Society for Occupational Safety and Hygiene (SPOSHO). The contributions focus on selected topics, which include (but is not limited to): Occupational safety Risk assessment Safety management Ergonomics Management systems Environmental ergonomics Physical environments Construction safety, and Human factors The contributions in Occupational Safety and Hygiene II are mainly based on research carried out at universities and other research institutions, but also on practical studies developed by Occupational Health & Safety (OHS) Practitioners within their companies. Accordingly, this book will be a helpful text to get acquainted with the state-of-the-art of the research within the mentioned domains, as well as with some practical tools and approaches that are currently used by OHS professionals in a global context.

This book is a printed edition of the Special Issue Advances in Experimental and Computational Rheology that was published in Fluids

Filling a gap in the current literature, this comprehensive reference presents all important catalyst classes, including metal oxides, polyoxometalates, and zeolites. Readers will find here everything they need to know -- from structure design to characterization, and from immobilization to industrial processes. A true must-have for anyone working in this key technology.

This timely book is the first to provide a comprehensive overview of all important aspects of this modern technology with the focus on the "green aspect". The expert authors present everything from reactions without solvents to nanostructures for separation methods, from combinatorial chemistry on solid phase to dendrimers. The result is a ready reference packed full of valuable facts on the latest developments in the field - high-quality information otherwise widely spread throughout articles and reviews. From the contents: * Green chemistry for sustainable development * New synthetic methodologies and the demand for adequate separation processes * New developments in separation processes * Future trends and needs It is a "must-have" for every researcher in the field.

This book reviews the history, current state of knowledge, and different research approaches and techniques of studies on interactions between humans and plants in an important area of agriculture and ongoing plant domestication: Mesoamerica. Leading scholars and key research groups in Mexico discuss essential topics as well as contributions from international research groups that have conducted studies on ethnobotany and domestication of plants in the region. Such a convocation will produce an interesting discussion about future investigation and conservation of regional human

cultures, genetic resources, and cultural and ecological processes that are critical for global sustainability.

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