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Congreso Iberoamericano y Filipino de Archivos, Bibliotecas y Propiedad Intelectual Actas y ponencias Boletín oficial del estado: Gaceta de Madrid Boletín oficial del estado Gaceta de Madrid Estudios sobre el barroco musical hispánico (en torno a la figura del Dr. Miguel Querol) Editorial CSIC - CSIC Press

This landmark collective work introduces the physical, chemical, and biological principles underlying photosynthesis: light absorption, excitation energy transfer, and charge separation. It begins with an introduction to properties of various pigments, and the pigment proteins in plant, algae, and bacterial systems. It addresses the underlying physics of light harvesting and key spectroscopic methods, including data analysis. It discusses assembly of the natural system, its energy transfer properties, and regulatory mechanisms. It also addresses light-harvesting in artificial systems and the impact of photosynthesis on our environment. The chapter authors are amongst the field's world recognized experts. Chapters are divided into five main parts, the first focused on pigments, their properties and biosynthesis, and the second section looking at photosynthetic proteins, including light harvesting in higher plants, algae, cyanobacteria, and green bacteria. The third part turns to energy transfer and electron transport, discussing modeling approaches, quantum aspects, photoinduced electron transfer, and redox potential modulation, followed by a section on experimental spectroscopy in light harvesting research. The concluding final section includes chapters on artificial photosynthesis, with topics such as use of cyanobacteria and algae for sustainable energy production. Robert Croce is Head of the Biophysics Group and full professor in biophysics of photosynthesis/energy at Vrije Universiteit, Amsterdam. Rienk van Grondelle is full professor at Vrije Universiteit, Amsterdam. Herbert van Amerongen is full professor of biophysics in the Department of Agrotechnology and Food Sciences at Wageningen University, where he is also director of the MicroSpectroscopy Research Facility. Ivo van Stokkum is associate professor in the Department of Physics and Astronomy, Faculty of Sciences, at Vrije Universiteit, Amsterdam.

To some philosophers, seeking to understand the human condition, technology is a necessary guide. But to think through the complex human phenomenon of technology we must tackle philosophy of science, philosophy of culture, moral issues, comparative civilizational studies, and the economics of specific industrial and military technologies in their historical contexts. The philosopher wants to grasp the technological factor in this troubled world, even as we see it is only one factor, and that it does not speak openly for itself. Put directly, our human troubles to a considerable extent have been transformed, exaggerated, distorted, even degraded, perhaps transcended, by what engineers and scientists, entrepreneurs and politicians, have wrought. But our problems are ancient, problems of dominations, struggles, survival, values in conflict, greed and insane sadisms. To get some conceptual light on the social reality which seems immediately to be so complicated, a philosopher will need to learn from the historians of technology. A few years ago, the philosopher Elisabeth Straker concluded that "a historical philosophy of technology [is required] since history - and history alone - provides all those concepts that form part of the repertoire of the philosophical analysis of technology". And she added that this goes far beyond the triviality that like other cultural achievements technology has its historical development. Now historical comprehension is no substitute for a logical methodology in the analysis of technological problems.

Computational Modelling of Nanoparticles highlights recent advances in the power and versatility of computational modelling, experimental techniques, and how new progress has opened the door to a more detailed and comprehensive understanding of the world of nanomaterials. Nanoparticles, having dimensions of 100 nanometers or less, are increasingly being used in applications in medicine, materials and manufacturing, and energy. Spanning the smallest sub-nanometer nanoclusters to nanocrystals with diameters of 10s of nanometers, this book provides a state-of-the-art overview on how computational modelling can provide, often otherwise unobtainable, insights into nanoparticulate structure and properties. This comprehensive, single resource is ideal for researchers who want to start/improve their nanoparticle modelling efforts, learn what can be (and what cannot) achieved with computational modelling, and understand more clearly the value and details of computational modelling efforts in their area of research. Explores how computational modelling can be successfully applied at the nanoscale level Includes techniques for the computation modelling of different types of nanoclusters, including nanoalloy clusters, fullerenes and Ligated and/or solvated nanoclusters Offers complete coverage of the use of computational modelling at the nanoscale, from characterization and processing, to applications

With more than 500 species distributed all around the Northern Hemisphere, the genus *Quercus* L. is a dominant element of a wide variety of habitats including temperate, tropical, subtropical and mediterranean forests and woodlands. As the fossil record reflects, oaks were usual from the Oligocene onwards, showing the high ability of the genus to colonize new and different habitats. Such diversity and ecological amplitude makes genus *Quercus* an excellent framework for comparative ecophysiological studies, allowing the analysis of many mechanisms that are found in different oaks at different level (leaf or stem). The combination of several morphological and physiological attributes defines the existence of different functional types within the genus, which are characteristic of specific phytoclimates. From a landscape perspective, oak forests and woodlands are threatened by many factors that can compromise their future: a limited regeneration, massive decline processes, mostly triggered by adverse climatic events or the competence with other broad-leaved trees and conifer species. The knowledge of all these facts can allow for a better management of the oak forests in the future.

Los fundadores de la actual Miquel y Costas & Miquel SA, los hermanos Miquel i Costas, nacieron en el seno de una familia de la comarca papelera de Capellades, con tradición en este sector desde el siglo XVIII. En ese contexto, los Miquel adquirieron los conocimientos necesarios para crear y gestionar la citada iniciativa empresarial. No en vano MCM ha sido durante más de un siglo una firma familiar, realidad que empezó a cambiar a mediados de la década de 1960, al

iniciarse un proceso de apertura que se completó a finales del siglo XX. Los hermanos Miquel, siguiendo la tradición autóctona, continuaron haciendo el papel a mano hasta la década de 1880, momento en que sumaron el procedimiento semimecánico. En 1914, la compra de una fábrica moderna inició un viraje en favor de la fabricación continua y de Barcelona como eje productivo. Los activos se ampliaron con los años, especialmente después de la fusión con la valenciana Payá Miralles en 1975. Últimamente las apuestas de MCM se han concentrado en su zona de origen, a pesar de ser una pequeña-gran multinacional con activos productivos en el extranjero. Su línea de producción se ha movido entre el papel de fumar y la diversificación. El primero fue su producto prácticamente único hasta la España autárquica. Desde entonces, en diferentes grados y por motivos varios, la diversificación ha sido recurrente hasta llegar en los últimos tiempos a ser estratégica. A ello se suma el carácter fundamentalmente exportador de la empresa, alterado únicamente durante el período de la España autárquica, aunque desde inicios de 1970 empezó a recuperar su antigua esencia global. El éxito actual de MCM, después de la zozobra de la segunda mitad de la década de 1980 y los primeros años de la de 1990, es inseparable de su legado histórico. La búsqueda de nuevos horizontes, la prudencia (aunque sin aversión al riesgo) y la identificación con su legado técnico y humano son sus bases.

This book provides a comprehensive overview of the multiple strategies that plants have developed to cope with drought, one of the most severe environmental stresses. Experts in the field present 17 chapters, each of which focuses on a basic concept as well as the latest findings. The following major aspects are covered in the book: · Morphological and anatomical adaptations · Physiological responses · Biochemical and molecular responses · Ecophysiological responses · Responses to drought under field conditions The contributions will serve as an invaluable source of information for researchers and advanced students in the fields of plant sciences, agriculture, ecophysiology, biochemistry and molecular biology.

Con motivo del fallecimiento reciente del Dr. Querol, medalla de Plata del CSIC y Director del Instituto Español de Musicología, se han recogido una serie de estudios sobre el barroco musical español ,en el que el Dr. Querol fue pionero en el desarrollo de la investigación musicológica en esta materia.

This edition of ICD-O, the standard tool for coding diagnoses of neoplasms in tumour and cancer registrars and in pathology laboratories, has been developed by a working party convened by the International Agency for Research on Cancer / WHO. ICD-O is a dual classification with coding systems for both topography and morphology. The book has five main sections. The first provides general instructions for using the coding systems and gives rules for their implementation in tumour registries and pathology laboratories. Section two includes the numerical list of topography codes, which remain unchanged from the previous edition. The numerical list of morphology codes is presented in the next section, which introduces several new terms and includes considerable revisions of the non-Hodgkin lymphoma and leukaemia sections, based on the WHO Classification of Hematopoietic and Lymphoid Diseases. The five-digit morphology codes allow identification of a tumour or cell type by histology, behaviour, and grade. Revisions in the morphology section were made in consultation with a large number of experts and were finalised after field-testing in cancer registries around the world. The alphabetical index gives codes for both topography and morphology and includes selected tumour-like lesions and conditions. A guide to differences in morphology codes between the second and third editions is provided in the final section, which includes lists of all new code numbers, new terms and synonyms added to existing code definitions, terms that changed morphology code, terms for conditions now considered malignant, deleted terms, and terms that changed behaviour code.

How engineers and agricultural scientists became key actors in Franco's regime and Spain's forced modernization . The Gutenberg Galaxy catapulted Marshall McLuhan to fame as a media theorist and, in time, a new media prognosticator. Fifty years after its initial publication, this landmark text is more significant than ever before. Readers will be amazed by McLuhan's prescience, unmatched by anyone since, predicting as he did the dramatic technological innovations that have fundamentally changed how we communicate. The Gutenberg Galaxy foresaw the networked, compressed 'global village' that would emerge in the late-twentieth and twenty-first centuries — despite having been written when black-and-white television was ubiquitous. This new edition of The Gutenberg Galaxy celebrates both the centennial of McLuhan's birth and the fifty-year anniversary of the book's publication. A new interior design updates The Gutenberg Galaxy for twenty-first-century readers, while honouring the innovative, avant-garde spirit of the original. This edition also includes new introductory essays that illuminate McLuhan's lasting effect on a variety of scholarly fields and popular culture. A must-read for those who inhabit today's global village, The Gutenberg Galaxy is an indispensable road map for our evolving communication landscape.

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