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Chitosan-Based Systems for Biopharmaceuticals Bruno Sarmento 2012-02-16 Chitosan is a linear polysaccharide commercially produced by the deacetylation of chitin. It is non-toxic, biodegradable, biocompatible, and acts as a bioadhesive with otherwise unstable biomolecules - making it a valuable component in the formulation of biopharmaceutical drugs. Chitosan-Based Systems for Biopharmaceuticals provides an extensive overview of the application of chitosan and its derivatives in the development and optimisation of biopharmaceuticals. The book is divided in four different parts. Part I discusses general aspects of chitosan and its derivatives, with particular emphasis on issues related to the development of biopharmaceutical chitosan-based systems. Part II deals with the use of chitosan and derivatives in the formulation and delivery of biopharmaceuticals, and focuses on the synergistic effects between chitosan and this particular subset of pharmaceuticals. Part III discusses specific applications of chitosan and its derivatives for biopharmaceutical use. Finally, Part IV presents diverse viewpoints on different issues such as regulatory, manufacturing and toxicological requirements of chitosan and its derivatives related to the development of biopharmaceutical products, as well as their patent status, and clinical application and potential. Topics covered include: chemical and technological advances in chitins and chitosans useful for the formulation of biopharmaceuticals physical properties of chitosan and derivatives in sol and gel states absorption promotion properties of chitosan and derivatives biocompatibility and biodegradation of chitosan and derivatives biological and pharmacological activity of chitosan and derivatives biological, chemical and physical compatibility of chitosan and biopharmaceuticals approaches for functional modification or crosslinking of chitosan use of chitosan and derivatives in conventional biopharmaceutical dosage forms manufacture techniques of chitosan-based microparticles and nanoparticles for biopharmaceuticals chitosan and derivatives for biopharmaceutical use: mucoadhesive properties chitosan-based systems for mucosal delivery of biopharmaceuticals chitosan-based delivery systems for mucosal vaccination chitosan-based nanoparticulates for oral delivery of biopharmaceuticals chitosan-based systems for ocular delivery of biopharmaceuticals chemical modification of chitosan for delivery of DNA and siRNA target-specific chitosan-based nanoparticle systems for nucleic acid delivery functional PEGylated chitosan systems for biopharmaceuticals stimuli-sensitive chitosan-based systems for biopharmaceuticals chitosan copolymers for biopharmaceuticals application of chitosan for anti-cancer biopharmaceutical delivery chitosan-based biopharmaceuticals scaffolds in tissue engineering and regenerative medicine wound healing properties of chitosan and its use in wound dressing biopharmaceuticals toxicological properties of chitosan and derivatives for biopharmaceutical applications regulatory status of chitosan and derivatives patentability and intellectual property issues quality control and good manufacturing practice preclinical and clinical use of chitosan and derivatives for biopharmaceuticals Chitosan-Based Systems for Biopharmaceuticals is an important compendium of fundamental concepts, practical tools and applications of chitosan-based biopharmaceuticals for researchers in academia and industry working in drug formulation and delivery, biopharmaceuticals, medicinal chemistry, pharmacy, bioengineering and new materials development.

Safety and Health at Work 1997

The Directory of U.S. Trademarks 1993

Issues in Applied Physics: 2012 Edition 2013-01-10 Issues in Applied Physics / 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Radiation Research. The editors have built Issues in Applied Physics: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Radiation Research in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Applied Physics: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

The Waterlow Stock Exchange Yearbook 2006

Electricity and Magnetism in Biology and Medicine Ferdinando Bersani 2012-12-06 This book, a selection of the papers presented at the 2nd World Congress for Electricity and Magnetism, provides state-of-the-art information on applications of electricity and electromagnetic fields on living organisms, especially man.

Ensayos fundamentales Enrique Florescano 2012-05-21 Este libro homenaje recoge ocho ensayos esenciales del Dr. Enrique Florescano, renovador de la investigación histórica en México, que van desde su aproximación a los problemas agrarios de México, su investigación sobre la memoria mexicana y los mitos fundadores, hasta su reflexión sobre la historia como disciplina y el papel social del historiador. Este libro homenaje recoge ocho ensayos esenciales del Dr. Enrique Florescano, renovador de la investigación histórica en México, que van desde su aproximación a los problemas agrarios de México, su investigación sobre la memoria mexicana y los mitos fundadores, hasta su reflexión sobre la historia como disciplina y el papel social del historiador.

Health Effects of Exposure to Powerline-frequency Electric and Magnetic Fields Texas. Electro-Magnetic Health Effects Committee 1992

Ports of the World 1956

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Arts & Humanities Citation Index 1983 A multidisciplinary index covering the journal literature of the arts and humanities. It fully covers 1,144 of the world's leading arts and humanities journals, and it indexes individually

selected, relevant items from over 6,800 major science and social science journals.
HPLC Methods on Drug Analysis Mantu K. Ghosh 2012-12-06 The dramatic development of chromatographic techniques, specially high performance or high pressure liquid chromatography (HPLC) has made possible the easy analysis of organic compounds, including drugs and drug components, for last two decades. This rapid increase and improvement of analytical methodology with HPLC has enabled researchers and scientists to cope with other scientific and instrumental developments in their fields of work. Thousands of impressive and original scientific publications, text books and monographs describe the techniques for drug analysis with high performance liquid chromatography. However, no concise presentation of the general proper ties of the drugs and their HPLC methodology exists together in the market. This work contains the general properties necessary for the analysis of 232 drugs as well as the HPLC methods for many other drugs and drug components. It is hoped that it will fill a gap and provide a precise survey of the HPLC methods for drug analysis. It is intended as an immediate guide in the laboratory and will be of help to the scientists, researchers and technicians in the field of analysis.

Epidemiology of Electromagnetic Fields Martin Roosli 2014-06-03 Appeals to a Wide Audience Fueled by more than 30 years of intensive research and debate on the impact of electromagnetic fields (EMF) on everyday life—starting with residential exposure to magnetic fields and the development of childhood cancer in the 70s and continuing with risk of exposure via wireless communications in present day—Epidemiology of Electromagnetic Fields addresses ongoing public and scientific controversy surrounding the possible effects of electromagnetic fields (EMF) to human health, and provides an in-depth introduction into the methodology of environmental epidemiology that is appropriate for all levels, from student to practicing engineer. Exposure to EMF Focusing primarily on EMF examples, the author presents the general principles and methodological concepts in environmental epidemiology. Topics of importance in the first part of the book include epidemiological study designs, exposure assessment methods and implications for the study results, as well as selection bias, confounding, and other biases including reverse causality and ecological fallacy. The second part of the book covers environmental epidemiological methods in detail and outlines key examples such as childhood leukemia and exposure to extremely low-frequency magnetic fields, as well as examples that look at brain tumors and mobile phone use. The book also offers a detailed discussion on the range of EMF sources and exposures. In addition, it highlights the sophisticated assessment methods required to address exposure situations, and provides a historical perspective. The third part of the book examines how EMF exposure from the use of wireless communication techniques and other challenges affect risk assessment today and also details future developments. Explores environmental epidemiological methods in detail, while critically discussing epidemiological findings Provides a state-of-the-art overview of the scientific evidence of the health effects of EMF Considers how novelty, the steep increase of radiofrequency (RF) EMF exposure from wireless communications, and other challenges affect risk assessment today Epidemiology of Electromagnetic Fields provides a thorough overview of the subject, and evaluates the scientific evidence surrounding the possible health effects of EMFs.

Biological Effects of Electric and Magnetic Fields David O. Carpenter 2012-12-02 Recent concerns over the possible hazards of electrical and magnetic fields in the home and workplace are comprehensively addressed within this book. The chapters contain detailed research on the biological effects of electric and magnetic fields, and evidence for and against any interaction of electromagnetic fields (EMFs) and the biological systems. The relative risk of exposure to EMFs Putative behavioral and neural effects of EMFs EMF effects on cells

Uitblinkers Malcolm Gladwell 2010-05-26 Uitblinkers is een stimulerende en verbazende zoektocht naar de herkomst van succes. Vanuit het niets bestaat niet Wat is er zo bijzonder aan een uitzonderlijke prestatie? Dat lijkt een vreemde vraag, maar met vreemde vragen is Malcolm Gladwell op zijn best. Uitblinkers is een stimulerende en verbazende zoektocht naar de herkomst van succes. En die ligt niet, zoals meestal wordt gedacht, in een bijzonder brein of een verbluffend talent. Uitblinkers hebben iets bijzonders, maar dat zit hem vooral in wat ze meegemaakt hebben: hun cultuur, familie, en alle eigenaardigheden waarmee ze in aanraking zijn geweest. De geheimen van de softwaremiljardair, de briljante voetballer, de geniale wiskundige en The Beatles zijn niet onbegrijpelijk. In Uitblinkers laat Malcolm Gladwell zien waarom sommige mensen succes hebben, en anderen niet. Zijn beste en bruikbaarste boek: spannende wetenschap, zelfhulp en amusement in één! entertainment weekly Malcolm Gladwell is hij vaste medewerker bij The New Yorker. Daarvoor was hij wetenschapsjournalist bij de Washington Post. Van Het beslissende moment zijn wereldwijd meer dan twee miljoen exemplaren verkocht en Intuïtie stond twee jaar onafgebroken op de New York Times bestsellerlijst. Gladwell won de National Magazine Award en was in 2005 volgens Time een van de honderd invloedrijkste mensen.

Mens en wereld uit Naturalis historia C. Plinius Secundus Maior 1980

Dirty Electricity Samuel Milham, MD, MPH 2012-12-06 When Thomas Edison began wiring New York City with a direct current electricity distribution system in the 1880s, he gave humankind the magic of electric light, heat, and power; in the process, though, he inadvertently opened a Pandora's Box of unimaginable illness and death. Dirty Electricity tells the story of Dr. Samuel Milham, the scientist who first alerted the world about the frightening link between occupational exposure to electromagnetic fields and human disease. Milham takes readers through his early years and education, following the twisting path that led to his discovery that most of the twentieth century diseases of civilization, including cancer, cardiovascular disease, diabetes, and suicide, are caused by electromagnetic field exposure. In the second edition, he explains how electrical exposure does its damage, and how electricity is causing our current epidemics of asthma, diabetes and obesity. Dr. Milham warns that because of the recent proliferation of radio frequency radiation from cell phones and towers, terrestrial antennas, Wi-Fi and Wi-max systems, broadband internet over power lines, and personal electronic equipment, we may be facing a looming epidemic of morbidity and mortality. In Dirty Electricity, he reveals the steps we must take, personally and as a society, to coexist with this marvelous but

dangerous technology.

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