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Electromagnetic Fields In

Advances in Electromagnetic Fields in Living Systems. , Volume 2.

James C. Lin. Springer Science & Business Media, 1994 - Medical - 288 pages. 1 Review. Volume 2 in this series offers research into two

specific regions of the electromagnetic spectrum: extremely low

frequency fields and radiofrequency radiation, with particular

emphasis on the latter.

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In spite of the remarkable progress that has been made against cancer, the battle is far from over. It is estimated that there are 175,000 new female breast cancer cases, annually, and 40,000 deaths resulting

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from it in the U. S. In fact, breast cancer incidence rates have shown little change in the 1990s, while breast cancer death rates have been declining about 2percentperyearsince1990 ...

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Advances in Electromagnetic Fields in Living Systems, published by Springer since 1994, presents state-of-the-art discussions in electromagnetism that influence the activities of living organisms. This focus affirms Springer's commitment to publish important reviews to add to the scientific and professional literature significant research larger in scope than journal articles.

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Advances in Electromagnetic Fields in Living Systems ...

Advances in Electromagnetic Fields in Living Systems. Usually dispatched within 3 to 5 business days. Usually dispatched within 3 to 5 business days. This is the third volume in the series, in which the topic of the effects of radio frequencies on human tissue, now increasingly a concern with the prevalence of cell phones, is explored by Prof. Lin and other researchers.

Advances in Electromagnetic Fields in Living Systems ...

Electromagnetic field, a property of space caused by the motion of an electric charge. A stationary charge will produce only an electric field in the surrounding space. If the charge is moving, a magnetic field is also produced. An electric field can be produced also by a changing magnetic field. The mutual interaction of electric and magnetic fields produces an electromagnetic field, which is considered as having its own existence in space apart from the charges or

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Advances in Electromagnetic Fields in Living Systems: 1 ...

Electromagnetic fields (EMF) have been implicated to influence a range of bodily functions. Given their ubiquitous nature, widespread applications, and capability to produce deleterious effects, conclusive investigations of the health risks are critical.

This comprehensive and topical volume presents a number of significant advances on many fronts in this area of research, particularly emphasizing current and future biomedical applications of electromagnetic fields.

Health Effects of Cell Phone Radiation will offer a concentrated and up-to-date overview on the effects of radio frequencies on human tissue. While significant advances are being made on many fronts, ranging in frequency from quasi-static to the optical regime, a special emphasis of this volume is on current understanding of biological interactions of cellular mobile communication radiation. The use of cell-phones has experienced phenomenal growth - some estimate that there will be more than 3.5 billion users of these wireless devices by the end of 2010, worldwide. The widespread impact of these new wireless technologies has raised concerns about the safety of human exposure to radio-frequency (RF) energy emitted by these telecommunication devices. A better understanding of the

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biological effects of RF electromagnetic field is needed to safeguard against possible harm to the general population. Fortunately in recent years there has been a resurgence of research interest in achieving a quantitative understanding of the relationships between the biological effects of RF radiation and the physical variables that may cause them. A significant number of results have and are beginning to appear in the literature. This volume reviews and assesses the biological effects of exposure to electromagnetic fields from wireless communication technology.

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Advances in Electromagnetic Fields in Living Systems, published by Springer since 1994, presents state-of-the-art discussions in electromagnetism that influence the activities of living organisms. This focus affirms Springer's commitment to publish important reviews to add to the scientific and professional literature significant research larger in scope than journal articles. Advances in Electromagnetic Fields in Living Systems , Volume 4 begins with fetal magnetocardiography (fMCG), a noninvasive method of detecting components of the magnetic field produced by the electrical activity of the fetal heart. FMCG is experiencing steady growth, and is expected to gain influence in diagnosing certain congenital fetal heart defects while at the same time providing optimal care for patients. FMCG provides a distinct signal, free of maternal cardiac interference, which can be detected throughout the last half of pregnancy. Other Key Topics: -Noninvasive biomedical application of non-ionizing electromagnetic energy, -Microwave thermoelastic imaging uses microwave-pulse-induced thermoelastic pressure waves to form planar or tomographic images, -Mechanisms of light-tissue interaction

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in the near infrared region and different types of instruments used for diffuse optical imaging, -Advances in reliable laser diodes and optical telemetry, -ELF magnetic-field exposure and the pain system, -Cyclotron resonance in enhancing the sensitivity of biological systems to magnetic fields. Advances in Electromagnetic Fields in Living Systems will be essential reading for all academics, bench scientists, and industry professionals wishing to take advantage of the latest and greatest in this continuously emerging field. About the Editor: Dr. James C. Lin is Professor of Electrical Engineering, Professor of Bioengineering, and Professor of Physiology and Biophysics at the University of Illinois - Chicago. Among other honors, Dr. Lin is a Fellow of IEEE, Fellow of AAAS, a Founding Fellow of AIMBE, and a recipient of the d'Arsonval Medal from the Bioelectromagnetics Society.

A comprehensive review of the field of materials that shield people and sensitive electronic devices from electromagnetic fields Advanced Materials for Electromagnetic Shielding offers a thorough review of the most recent advances in the processing and characterization of the electromagnetic shielding materials. In this groundbreaking book, the authors—noted experts in the field—discuss the fundamentals of shielding theory as well as the practice of electromagnetic field measuring techniques and systems. They also explore applications of shielding materials used as absorbers of electromagnetic radiation, or as magnetic shields and explore coverage of new advanced materials for EMI shielding in aerospace applications. In addition, the text contains methods of preparation and applicability of metal foams. This comprehensive text examines the influence of technology on the micro- and macrostructure of polymers enabling their use in screening technology, technologies of shielding materials based on textiles, and analyses of its effectiveness in screening. The book also details the method of producing nanowires and their applications in EM shielding. This important resource: Explores the burgeoning market of electromagnetic shielding materials as we create, depend upon, and are exposed to more electronic devices than ever Addresses the most comprehensive issues relating to electromagnetic fields Contains information on the manufacturing, characterization methods, and properties of materials used to protect against them Discusses the important characterization techniques compared with one another, thus allowing scientists to select the best approach to a problem Written for materials scientists, electrical and electronics engineers, physicists, and industrial researchers, Advanced Materials for Electromagnetic Shielding explores all aspects in the area of electromagnetic shielding materials and examines the current state-of-the-art and new challenges in this rapidly growing area.

The North Atlantic Treaty Organization (NATO) has sponsored research supporting development of personnel safety standards for exposure to

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Radio Frequency Radiation (RFR) for over a quarter century. NATO previously recognized that one of the most important tools used in the RFR effects research laboratory is accurate dosimetry when it supported a NATO Advanced Studies Institute (ASI) on Advances in Biological Effects and Dosimetry of Low Energy Electromagnetic Fields held in 1981, in Erice, Sicily. That meeting resulted in a NATO ASI publication; Biological Effects and Dosimetry of 1 Non-ionizing Radiation: Radiofrequency and Microwave Energies . The most recent NATO sponsored program on RFR was an Advanced Research Workshop (ARW) on "Developing a New Standardization Agreement (STANAG) for Radio frequency Radiation" held May 1993, at the Pratica di Mare Italian Air Force Base, Pomezia (Rome) Italy. That ARW produced an ASI proceedings, published in 1995: Radio frequency Radiation Standards, Biological Effects, Dosimetry, Epidemiology, and Public Health Policy². The Rome ARW and the Proceedings served as a springboard to the much needed revision of the NATO Standardization Agreement (STANAG) 2345 MED "Evaluation and Control of Personnel Exposure to Radio Frequency Fields - 3 kHz to 300 GHz,,³, which was subsequently promulgated in October 1998. One of the published recommendations developed by the Rome ARW was to hold this second ARW focusing on dosimetry and measurements.

Volume 2 in this series offers research into two specific regions of the electromagnetic spectrum: extremely low frequency fields and radiofrequency radiation, with particular emphasis on the latter. The investigations explore: melatonin synthesis and exposure to extremely low frequency (ELF) fields ELF fields and cancer computational bioelectromagnetics health effects, including the carcinogenic potential of radiofrequency radiation radiofrequency radiation as an energy source for arrhythmia, and practical applications of the radiofrequency exposure standard.

In the past few decades, Magnetic Resonance Imaging (MRI) has become an indispensable tool in modern medicine, with MRI systems now available at every major hospital in the developed world. But for all its utility and prevalence, it is much less commonly understood and less readily explained than other common medical imaging techniques. Unlike optical, ultrasonic, X-ray (including CT), and nuclear medicine-based imaging, MRI does not rely primarily on simple transmission and/or reflection of energy, and the highest achievable resolution in MRI is orders of magnitude smaller than the smallest wavelength involved. In this book, MRI will be explained with emphasis on the magnetic fields required, their generation, their concomitant electric fields, the various interactions of all these fields with the subject being imaged, and the implications of these interactions to image quality and patient safety. Classical electromagnetics will be used to describe aspects from the fundamental phenomenon of nuclear precession through signal detection and MRI safety. Simple explanations and Illustrations combined with pertinent equations are designed to help the reader rapidly gain a fundamental understanding and an

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appreciation of this technology as it is used today, as well as ongoing advances that will increase its value in the future. Numerous references are included to facilitate further study with an emphasis on areas most directly related to electromagnetics.

Thus, epidemiological studies suggest that children living near electric power lines have an increased risk of leukemia, and clinical studies show that low-energy, pulsed EMFs accelerate healing of bone fractures. The mechanisms underlying these effects are not yet understood, but in vitro studies show that low-energy EMFs induce changes in protein syntheses that are similar to the stress response found normally in all cells. This 26-chapter book provides a comprehensive survey of the multifaceted issues raised by environmental EMFs by looking at physical and biological fundamentals of EMFs, health risks and benefits of exposure, and biophysical and biochemical mechanisms of interaction.

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