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The City of Jackson saw 17 homicides during the month of June. On Wednesday, Governor Tate Reeves announced a new public safety initiative. The governor said the ...

Jackson leaders react to Gov. Reeves' public safety initiative

A small trial is the latest to hint that a drug common in HFpEF may not help, notably if chronotropic incompetence is present.

Beta-blocker Withdrawal Boosts Peak VO2 in HFpEF Subset: PRESERVE-HR

On Wednesday, Mississippi Governor Tate Reeves and Department of Public Safety Commissioner Sean Tindell will discuss the department's efforts to increase its ...

Mississippi governor announces Jackson public safety initiative
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Rachael Denhollander, a vocal critic of the Southern Baptist Convention's treatment of alleged sexual abuse of the clergy, was appointed as Special Adviser to the SBC's task group on the matter.

Rachael Denhollander Joins Task Force Charged With Investigating Sexual Abuse Handling At SBC
Tyler & Company joined the Jackson ... clinical operations experience to recognize organizational challenges, understand their implications and present mission-margin, results-focused solutions.

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Robinhood stocks can be a treasure trove if you look in the right places. Here are seven that are set up to move up.

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UF Health Jacksonville opened a food pharmacy in early June and is preparing to open a social services hub as part of the Urban Health Alliance.

Food access and mental health are a struggle for many in Jacksonville. The Urban Health Alliance is stepping in.
DETROIT (June 14, 2021) – Henry Ford Hospital has partnered with Atlas Lift Tech, Inc. and Arjo Diligent Clinical Consultants ... With products and solutions that ensure ergonomic patient ...

Henry Ford Hospital launches program to enhance patient safety, reduce workplace injuries
FAYETTEVILLE — Three changes have been made to the Cape Fear Valley Health

leadership team in order to support the heath care system's growth.

Cape Fear Valley Health announces leadership changes
LCDR Matthew Hall '09, a U.S. Navy physician and an adjunct assistant professor in the Department of Family Medicine at University of North Carolina Chapel Hill, has been named the 2021 Henry M.

Alumni News – June 2021
Two new faces were appointed Tuesday to the Robeson County Board of Elections. Republicans Daniel Locklear and Gretchen Lutz were chosen by the State Board of Elections to serve on the five-member ...

State Board of Elections appoints two new members to county Elections Board
Pharma Tech Outlook is an online magazine, pioneering as a one-stop-hub for product trends, solutions that evaluates ... results in treating unmet clinical needs of patients," says, Dr. Ashesh ...

A revision of the defining book covering the physics and classical mathematics necessary to understand electromagnetic fields in materials and at surfaces and interfaces. The third edition has been revised to address the changes in emphasis and applications that have occurred in the past twenty years.

This book is designed to acquaint serious students, scientists, and clinicians with magnetic source imaging (MSI)--a brain imaging technique of proven importance that promises even more important advances. The technique permits spatial resolution of neural events on a scale measured in millimeters and temporal resolution measured in milliseconds. Although widely mentioned in literature dealing with cognitive neuroscience and functional brain imaging, there is no single book describing both the foundations and actual methods of magnetoencephalopgraphy and its underlying science, neuromagnetism. This volume fills a long-standing need, as it is accessible to scientists and students having no special background in the field, and makes it possible for them to understand this literature and undertake their own research. A self-contained unit, this book covers MSI from beginning to end, including its relationship to allied technologies, such as electroencephalography and modern functional imaging modalities. In addition, the book: *introduces the field to the non-specialist, providing a framework for the rest of the book; *provides a thorough review of the physiological basis of MSI; *describes the mathematical bases of MSI--the forward and inverse problems; *outlines new signal processing methods that extract information from single-trial MEG; *depicts the early, as well as the most recent versions of MSI technology; *compares MSI with other imaging methodologies; *describes new paradigms and analysis techniques in applying MSI to study human perception and cognition, which are also applicable to EEG; and *reviews some of the most important results in MSI from the most prominent researchers and laboratories around the world.

This interdisciplinary book deals with the solution of large linear systems as they typically arise in computational electrodynamics. It presents a collection of topics

which are important for the solution of real life electromagnetic problems with numerical methods - covering all aspects ranging from numerical mathematics up to measurement techniques. Special highlights include a first detailed treatment of the Finite Integration Technique (FIT) in a book - in theory and applications, a documentation of most recent algorithms in use in the field of Krylov subspace methods in a unified style, a discussion on the interplay between simulation and measurement with many practical examples.

This reference and workbook provides not only a complete survey of classical electrodynamics, but also an enormous number of worked examples and problems to show the reader how to apply abstract principles to realistic problems. The book will prove useful to graduate students in electrodynamics needing a practical and comprehensive treatment of the subject.

This work investigates the connections between psychology and physiology. Topics include synaptic sources, electrode placement, choice of reference, volume conduction, power and coherence, projection of scalp potentials to dura surface, dynamic signatures of conscious experience and more.--[Source inconnue].

In vivo magnetic resonance imaging (MRI) has evolved into a versatile and critical, if not 'gold standard', imaging tool with applications ranging from the physical sciences to the clinical '-ology'. In addition, there is a vast amount of accumulated but unpublished inside knowledge on what is needed to perform a safe, in vivo MRI. The goal of this comprehensive text, written by an outstanding group of world experts, is to present information about the effect of the MRI environment on the human body, and tools and methods to quantify such effects. By presenting such information all in one place, the expectation is that this book will help everyone interested in the Safety and Biological Effects in MRI find relevant information relatively quickly and know where we stand as a community. The information is expected to improve patient safety in the MR scanners of today, and facilitate developing faster, more powerful, yet safer MR scanners of tomorrow. This book is arranged in three sections. The first, named 'Static and Gradient Fields' (Chapters 1-9), presents the effects of static magnetic field and the gradients of magnetic field, in time and space, on the human body. The second section, named 'Radiofrequency Fields' (Chapters 10-30), presents ways to quantify radiofrequency (RF) field induced heating in patients undergoing MRI. The effect of the three fields of MRI environment (i.e. Static Magnetic Field, Time-varying Gradient Magnetic Field, and RF Field) on medical devices, that may be carried into the environment with patients, is also included. Finally, the third section, named 'Engineering' (chapters 31-35), presents the basic background engineering information regarding the equipment (i.e. superconducting magnets, gradient coils, and RF coils) that produce the Static Magnetic Field, Time-varying Gradient Magnetic Field, and RF Field. The book is intended for undergraduate and post-graduate students, engineers, physicists, biologists, clinicians, MR technologists, other healthcare professionals, and everyone else who might be interested in looking into the role of MRI environment on patient safety, as well as those just wishing to update their knowledge of the state of MRI safety. Those, who are learning about MRI or training in magnetic resonance in medicine, will find the book

a useful compendium of the current state of the art of the field.

When in the future improved and more flexible heating equipment becomes available, and when hyperthermia is applied more routinely, computerized simulations of treatments will become commonplace, as they are in radia tion therapy. For hyperthermia, however, such simulations will be used not only for the traditional role of planning patient treatment, but also for three other applications not needed in radiation therapy - the comparative evalu ation of equipment, feedback control during treatment, and the post-treat ment evaluation of therapy. The present simulations of hyperthermia are crude and simple when compared with what is required for these future ap plications, a fact which indicates the nedd for considerable research and de velopment in this area. Indeed, this research is proceeding rapidly within the hyperthermia community, whre three-dimensional power deposition and temperature calculations have just become available for realistic patief\t anatomies. Of equal significance are the even more rapid development in diagnostic imaging for the determination and display of patient anatomy and blood flow rates - information required for the planning of realistic hyperthermia treatment. These simulations will be very valuable tools which can be used to great ad vantage when combined with data obtained from treatments of patients.