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An innovative neurofeedback company in Auckland is bringing together a diverse set of experts to teach people to control parts of their brain that are normally invisible. In doing so, they 're hoping ...

The back-shed inventor who built a pain-fighting brain machine

"We are a family of auto mechanics and teachers." Her parents ... They did not want that, which I can understand," she observes. Hitchcock's solution to the bind was to pursue a career in engineering.

She Wanted to Be a Doctor. Her Parents Stood in the Way Covid-19 revealed gaps in healthcare infrastructure across the world and not just India alone. However, India, despite its limited infrastructure and large population, saw doctors and healthcare ...

Intelligent ventilators crucial last mile technology in saving patient lives: Devang Lakhia, Hamilton India Each chapter introduces, explains, and expands a core concept in biofluid mechanics, establishing a firm theoretical

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framework for students to build upon in further study.
Practical biofluid ...

Biofluid Mechanics

Here, we show that rotational and translational diffusion of polymer-coated nanoparticles in quiescent synovial fluid and in hyaluronic acid solutions is well described ... critical in their design ...

Fast nanoparticle rotational and translational diffusion in synovial fluid and hyaluronic acid solutions

Early clinical data from studies of the NVX-CoV2373 vaccine (Novavax), a recombinant nanoparticle vaccine against severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) that contains the ...

Safety and Efficacy of NVX-CoV2373 Covid-19 Vaccine

Employers are eager to get fully staffed as they resume operations. Many are offering bonuses for future their employers.

10 Companies Offering Bonuses And Additional Benefits!

ORSAY, France, June 28, 2021 /PRNewswire/ -- On the 4 th edition of the Choose France Summit held in Versailles, Westinghouse announces the creation of its Welding & Mechanics Solutions (WMS) center.

Westinghouse Expands its European Footprint with New

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Ultra-Modern Workshop in France

Founded in 2018, Ascendo Biotechnology Inc (先知生技) has a research and development team with 30 years of clinical drug research ... racking their brains for a solution to the constantly mutating virus.

Ascendo developing solution to rapid virus mutations
ORRVILLE, Ohio, July 8, 2021 /PRNewswire/ -- The J.M. Smucker Co. (NYSE: SJM) today announced its Board of Directors approved an increase in the quarterly dividend from \$0.90 to \$0.99 per common ...

The J.M. Smucker Co. Announces Dividend Increase
RNs and computer programmers are also in high demand in Durham County, followed by clinical research coordinators, computer systems engineers/architects and nursing assistants. Meanwhile ...

Help wanted: Triangle employers looking most for programmers, healthcare workers
University Hospitals of North Midlands (UHNM) has announced the launch of a pioneering, automated process to enable patients to select their own X-ray appointments. Previously, patients could come for ...

UHNM partners with Digital Workforce and PSTG to enable robotic automation
Clinical biomarkers are critical for the acceleration of curative medicines. The identification of these novel clinical

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biomarkers allows researchers to better understand complex mechanisms of immune ...

Enabling biomarker discovery with functional proteomics

The company also announced Dr. Amit Rakhit will leave Ovid's full-time management team at the end of August and will join its Scientific and Clinical Advisory Board. Ovid said Dr. Michael Poole ...

The Daily Biotech Pulse: Lilly, Morphic's Positive Data At ECCO, Humanigen's COVID Treatment Gets Expedited Review In UK, TransCode IPO

“ The idea is to take mindfulness structures and video game mechanics together ... enterprise in-office wellness solutions. Tripp is currently in the midst of clinical trials to study the ...

Psychedelic VR meditation startup Tripp raises \$11 million Series A

Shortly before he passed away in October 2020, Crandall ' s decades of global humanitarian work and his love of mechanics and innovation served ... “ One goal we have as engineers is to find and create ...

Utah Students Engineer a Solution for Eye Exams in Remote Areas

As a pioneer and world leader in services to the nuclear industry, Westinghouse is investing in the Auvergne-Rhône-Alpes region with a new Welding & Mechanics Solutions (WMS) center to design and ...

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This new edition of a popular textbook offers an original collection of problems in analytical mechanics. Analytical mechanics is the first chapter in the study and understanding of theoretical physics. Its methods and ideas are crucially important, as they form the basis of all other branches of theoretical physics, including quantum mechanics, statistical physics, and field theory. Such concepts as the Lagrangian and Hamiltonian formalisms, normal oscillations, adiabatic invariants, Liouville theorem, and canonical transformations lay the foundation, without which any further in-depth study of theoretical physics is impossible. Wherever possible, the authors draw analogies and comparisons with similar processes in electrodynamics, quantum mechanics, or statistical mechanics while presenting the solutions to the problems. The book is based on the authors' many years of experience delivering lectures and seminars at the Department of Physics at Novosibirsk State University — totalling an impressive 110+ years of combined teaching experience. Most of the problems are original, and will be useful not only for those studying mechanics, but also for those who teach it. The content of the book corresponds to and roughly follows the mechanics course in the well-known textbooks by Landau and Lifshitz, Goldstein, or ter Haar. The Collection... starts with the Newtonian equations, motion in a central field, and scattering. Then the text proceeds to the established, traditional sections of analytical mechanics as part of the course on theoretical physics: the Lagrangian equations, the Noether theorem, linear and nonlinear oscillations, Hamilton formalism, and motion of a solid body. As a rule, the solution of a problem is not complete by just obtaining the required

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formulae. It's necessary to analyse the result. This can be an interesting process of discovery for the student and is by no means a "mechanical" part of the solution. It is also very useful to investigate what happens if the conditions of the problem are varied. With this in mind, the authors offer suggestions of further problems at the end of several solutions. First published in 1969 in Russian, this text has become widely used in classrooms around the world. It has been translated into several languages, and has seen multiple editions in various languages.

For many years, biochemical tests have been widely used for the diagnosis, classification, and monitoring of bone and connective tissue disease. However, shortcomings in terms of the specificity and sensitivity of such tests have prompted continual questioning about their clinical usefulness. This book, based on a meeting organized jointly by the University of Uppsala and Pharmacia Diagnostics AB, reviews our current understanding of basic bone and connective tissue biochemistry and the clinical role of biochemical markers specific to related diseases, with special reference to rheumatoid arthritis and osteoporosis.

Many textbooks are unable to step outside the classroom and connect with industrial practice, and most describe difficult-to-rationalize ad hoc derivations of the modal parameters. In contrast, *Elementary Flight Dynamics with an Introduction to Bifurcation and Continuation Methods* uses an optimal mix of physical insight and mathematical presentatio

With upwards of 4.5 million deaths worldwide each year, and more than one tenth of these occurring in those with no

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previously documented heart disease, sudden arrhythmic death (SAD) is both a major public health burden and a highly emotive issue for society at large. Recent years have witnessed a marked expansion in our knowledge of the physiology underlying SAD, both in the context of hereditary and acquired cardiac disorders. Thanks largely to work in genetically modified animals, the growth in our understanding of mechanisms underlying arrhythmia in the hereditary channelopathies has been particularly marked. Our growing knowledge of the fundamental mechanisms underlying SAD has so far failed to spur substantial developments in clinical practice. Despite a large body of work in both humans and animals, it remains impossible to confidently identify those at high risk of SAD, making pre-emptive therapy a challenge. What is more, with the thankful exception of the implantable cardioverter-defibrillators and pharmacological agents in very specific situations, there has been depressingly little progress in finding new and effective therapies. This Research Topic aims to go some way towards bridging the gap between advances in basic science and the development and delivery of new therapies. It brings together original research contributions and review articles from key opinion leaders in the field, focusing on the direct clinical implications of the basic science research now and in the future

For 30 years, this book has been the acknowledged standard in advanced classical mechanics courses. This classic book enables readers to make connections between classical and modern physics — an indispensable part of a physicist's education. In this new edition, Beams Medal winner Charles Poole and John Safko have updated the book to include the latest topics, applications, and notation to reflect today's physics curriculum.

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Vols. for 1898-1968 include a directory of publishers.

This volume is a translation and revision of the Original Russian version by Baryahktar. It covers all of the main fields involved in Condensed Matter Physics, such as crystallography, electrical properties, fluids, magnetism, material properties, optics, radiation, semiconductors, and superconductivity, as well as highlights of important related subjects such as quantum mechanics, spectroscopy, and statistical mechanics. Both theoretical and experimental aspects of condensed matter are covered in detail. The entries range from very short paragraphs on topics where definitions are needed, such as Bloch's law, clathrate compound, donor, domain, Kondo lattice, mean free path, and Wigner crystal, to long discussions of more general or more comprehensive topics such as antiferromagnetism, crystal lattice dynamics, dislocations, Fermi surface, Josephson effect, luminescence, magnetic films, phase transitions and semiconductors. The main theoretical approaches to Condensed Matter Physics are explained. There are several long tables on, for example, Bravais lattices, characteristics of magnetic materials, units of physical quantities, symmetry groups. The properties of the main elements of the periodic table are given. Numerous entries not covered by standard Solid State Physics texts o Self-similarity o The adiabatic approximation o Bistability Emphasis on materials not discussed in standard texts o Activated carbonyl o Austenite o Bainite o Calamitics o Carbide o Delat phase o Discotics o Gunier-Preston zones o Heterodesmic structures o Heusler Alloys o Stress and strain deviators o Vicalloy · Each entry is fully cross-referenced to help tracking down all aspects of a topic under investigation Highly illustrated to clarify many concepts

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