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Kiva Harper, a licensed clinical social worker, sees clients who are predominantly people of color. Many of them share stories about microaggressions — ...

North Texas counseling service educates therapists on how systemic racism affects mental health care

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

Because Doherty studies the mechanics of this plant clockwork ... are huge, said Crispin Taylor, CEO of the American Society of Plant Biologists. But the country has never treated it as essential ...

Scientists have long warned climate change threatens our food security. Now they're finding solutions.

Visitors watch the AISES Powwow on Saturday at The University of North Carolina at Pembroke. The powwow was one of the many Lumbee Homecoming activities that drew tens of thousands of visitors ...

Many participate in powwow

Electric Last Mile Solutions, Inc. ("ELMS" or "the Company"), a designer of intelligent, e-mobility workstations for the last mile, today announced that it has signed a binding, long-term supply ...

Electric Last Mile Solutions Announces Long-Term Supply Agreement with Wuling Motors

The use cases and applications for machine learning offer benefits for most organizations, according to experts.

Machine learning is demonstrating its mettle across industries

Story continues Among the companies offering solutions for digital nomads is the Indiana-based ... sucking video conferences put a serious strain on home networks." Kevin Taylor, the founder of ...

Tired of working from home? Put the office on wheels

Life Science Newswire – Following a formal tender process, Nottingham University Hospitals (NUH) NHS Trust today announced the selection of Indica Labs to aid in full digitisation of the pathology ...

Nottingham University Hospitals NHS Trust selects Indica Labs to deliver their Digital Pathology Solution with HALO AP®

The blazing path COVID cut through deep East Oakland and similar neighborhoods around California before the virus began trickling out in 2020.

How California kids were impacted as pandemic laid bare existing inequalities

Taylor will be focusing on educating the entire care-at-home industry on the many clinical, financial and operational benefits Axxess' complete suite of solutions provides. "I'm really excited to ...

Axxess Strengthens Senior Leadership Team with Two Industry Veterans

Researchers in Mali have been working for decades on the treatment that's now in the final phase of clinical trials ...

West African Scientists Are Leading the Science Behind a Malaria Vaccine

The Tar Heels have never had a player selected with the top overall pick, but quarterback Sam Howell could make himself a strong contender with a strong junior campaign. Originally committed to ...

Will Sam Howell Continue Living Up To The Hype

SF Taylor is proud to have been announced as an awarded supplier for External Print and Digital services on the 2021 HealthTrust Europe framework We were previously awarded this status in 2017 and ...

SF Taylor named as awarded supplier on HealthTrust Europe External Print and Digital Services 2021 Framework

Mayor Paula Southgate, who presented the awards alongside Deputy Mayor Geoff Taylor and long-serving Councillor Martin ... they also go on to shape and deliver valuable and practical solutions to some ...

Hamilton honours 'exceptional' citizens

Austin's Kevin Schwantz is one of the world's most famous and highest-paid athletes, and no one in Texas knows who he is.

Unsung Hero

WASHINGTON, June 23, 2021 /PRNewswire/ -- With more than two decades of industry experience, Kris Taylor joins leading enterprise eDiscovery services provider HaystackID as Chief Revenue Officer.

Cyber and Legal Discovery Provider HaystackID™ Announces Kris Taylor as Chief Revenue Officer

June 16, 2021 /PRNewswire/ -- Syxsense, a global leader in IT and security management solutions is excited to announce it has added marketing powerhouse Dave R Taylor to their expanding executive ...

Syxsense Welcomes Dave R Taylor as Chief Marketing Officer - Invests to Expand on Growth

Veeva Systems (NYSE: VEEV) has proven how valuable software can be in organizing clinical trial data. Schrodinger's (NASDAQ: SDGR) solution is ... Motley Fool writer Taylor Carmichael discuss ...

My Favorite Biotech Stock Right Now

PathLAKE is working to deliver innovative AI solutions needed in NHS pathology ... developed by PathLAKE into practice. Dr Tim Taylor, the Clinical Director of Pathology at NUH said, "We are ...

Giving students a thorough grounding in basic problems and their solutions, Analytical Mechanics: Solutions to Problems in Classical Physics presents a short theoretical description of the principles and methods of analytical mechanics, followed by solved problems. The authors thoroughly discuss solutions to the problems by taking a comprehensive a

Statistical Mechanics: Fundamentals and Model Solutions, Second Edition Fully updated throughout and with new chapters on the Mayer expansion for classical gases and on cluster expansion for lattice models, this new edition of Statistical Mechanics: Fundamentals and Model Solutions provides a comprehensive introduction to equilibrium statistical mechanics for advanced undergraduate and graduate students of mathematics and physics. The author presents a fresh approach to the subject, setting out the basic assumptions clearly and emphasizing the importance of the thermodynamic limit and the role of convexity. With problems and solutions, the book clearly explains the role of models for physical systems, and discusses and solves various models. An understanding of these models is of increasing importance as they have proved to have applications in many areas of mathematics and physics. Features Updated throughout with new content from the field An established and well-loved textbook Contains new problems and solutions for further learning opportunity Author Professor Teunis C. Dorlas is at the Dublin Institute for Advanced Studies, Ireland.

Exact Solutions and Invariant Subspaces of Nonlinear Partial Differential Equations in Mechanics and Physics is the first book to provide a systematic construction of exact solutions via linear invariant

subspaces for nonlinear differential operators. Acting as a guide to nonlinear evolution equations and models from physics and mechanics, the book focuses on the existence of new exact solutions on linear invariant subspaces for nonlinear operators and their crucial new properties. This practical reference deals with various partial differential equations (PDEs) and models that exhibit some common nonlinear invariant features. It begins with classical as well as more recent examples of solutions on invariant subspaces. In the remainder of the book, the authors develop several techniques for constructing exact solutions of various nonlinear PDEs, including reaction-diffusion and gas dynamics models, thin-film and Kuramoto-Sivashinsky equations, nonlinear dispersion (compacton) equations, KdV-type and Harry Dym models, quasilinear magma equations, and Green-Naghdi equations. Using exact solutions, they describe the evolution properties of blow-up or extinction phenomena, finite interface propagation, and the oscillatory, changing sign behavior of weak solutions near interfaces for nonlinear PDEs of various types and orders. The techniques surveyed in Exact Solutions and Invariant Subspaces of Nonlinear Partial Differential Equations in Mechanics and Physics serve as a preliminary introduction to the general theory of nonlinear evolution PDEs of different orders and types.

"The author approaches an old classic problem - the existence of solutions of Navier-Stokes equations. The main objective is to model and derive of equation of continuity, Euler equation of fluid motion, energy flux equation, Navier-Stokes equations from the observer point of view and solve classic problem for this interpretation of fluid motion laws. If we have a piece of metal or a volume of liquid, the idea impresses itself upon us that it is divisible without limit, that any part of it, however small, would again have the same properties. But, wherever the methods of research in the physics of matter were refined sufficiently, limits to divisibility were reached that are not due to the inadequacy of our

experiments but to the nature of the subject matter. Observability in mathematics were developed by the author based on denial of infinity idea. He introduces observers into arithmetic, and arithmetic becomes dependent on observers. And after that the basic mathematical parts also become dependent on observers. This approach permits to reconsider the fluid motion laws, analyze them and get solutions of classic problems"--

Statistical Mechanics: Fundamentals and Model Solutions is a textbook on equilibrium statistical mechanics for advanced undergraduate and graduate students of mathematics and physics. The author presents a fresh approach to the subject, setting out the basic assumptions clearly and emphasizing the importance of the thermodynamic limit and the role of convexity. With problems and solutions, the book clearly explains the role of models for physical systems, and discusses and solves various models. An understanding of these models is of increasing importance as they have proved to have applications in many areas of mathematics and physics.

This book restates odd-numbered problems from Taylor's superb CLASSICAL MECHANICS, and then provides detailed solutions.

Classical Mechanics: A Computational Approach with Examples using Python and Mathematica provides a unique, contemporary introduction to classical mechanics, with a focus on computational methods. In addition to providing clear and thorough coverage of key topics, this textbook includes integrated instructions and treatments of computation. Full of pedagogy, it contains both analytical and computational example problems within the body of each chapter. The example problems teach readers

both analytical methods and how to use computer algebra systems and computer programming to solve problems in classical mechanics. End-of-chapter problems allow students to hone their skills in problem solving with and without the use of a computer. The methods presented in this book can then be used by students when solving problems in other fields both within and outside of physics. It is an ideal textbook for undergraduate students in physics, mathematics, and engineering studying classical mechanics. Features: Gives readers the "big picture" of classical mechanics and the importance of computation in the solution of problems in physics Numerous example problems using both analytical and computational methods, as well as explanations as to how and why specific techniques were used Online resources containing specific example codes to help students learn computational methods and write their own algorithms A solutions manual is available via the Routledge Instructor Hub and extra code is available via the Support Material tab

"This is truly an outstanding book. [It] brings together all of the latest research in clinical trials methodology and how it can be applied to drug development.... Chang et al provide applications to industry-supported trials. This will allow statisticians in the industry community to take these methods seriously." Jay Herson, Johns Hopkins University The pharmaceutical industry's approach to drug discovery and development has rapidly transformed in the last decade from the more traditional Research and Development (R & D) approach to a more innovative approach in which strategies are employed to compress and optimize the clinical development plan and associated timelines. However, these strategies are generally being considered on an individual trial basis and not as part of a fully integrated overall development program. Such optimization at the trial level is somewhat near-sighted and does not ensure cost, time, or development efficiency of the overall program. This book seeks to

address this imbalance by establishing a statistical framework for overall/global clinical development optimization and providing tactics and techniques to support such optimization, including clinical trial simulations. Provides a statistical framework for achieve global optimization in each phase of the drug development process. Describes specific techniques to support optimization including adaptive designs, precision medicine, survival-endpoints, dose finding and multiple testing. Gives practical approaches to handling missing data in clinical trials using SAS. Looks at key controversial issues from both a clinical and statistical perspective. Presents a generous number of case studies from multiple therapeutic areas that help motivate and illustrate the statistical methods introduced in the book. Puts great emphasis on software implementation of the statistical methods with multiple examples of software code (both SAS and R). It is important for statisticians to possess a deep knowledge of the drug development process beyond statistical considerations. For these reasons, this book incorporates both statistical and "clinical/medical" perspectives.

Fluid Dynamics via Examples and Solutions provides a substantial set of example problems and detailed model solutions covering various phenomena and effects in fluids. The book is ideal as a supplement or exam review for undergraduate and graduate courses in fluid dynamics, continuum mechanics, turbulence, ocean and atmospheric sciences, and related areas. It is also suitable as a main text for fluid dynamics courses with an emphasis on learning by example and as a self-study resource for practicing scientists who need to learn the basics of fluid dynamics. The author covers several sub-areas of fluid dynamics, types of flows, and applications. He also includes supplementary theoretical material when necessary. Each chapter presents the background, an extended list of references for further reading, numerous problems, and a complete set of model solutions.

The statistical mechanical theory of liquids and solutions is a fundamental area of physical sciences with important implications for many industrial applications. This book shows how you can start from basic laws for the interactions and motions of microscopic particles and calculate how macroscopic systems of these particles behave, thereby explaining properties of matter at the scale that we perceive. Using this microscopic, molecular approach, the text emphasizes clarity of physical explanations for phenomena and mechanisms relevant to fluids, addressing the structure and behavior of liquids and solutions under various conditions. A notable feature is the author's treatment of forces between particles that include nanoparticles, macroparticles, and surfaces. The book also provides an expanded, in-depth treatment of polar liquids and electrolytes.