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Both solutions are based on a similar specialized ... and the interplay between the mechanics and regulatory pathways all remain major topics for future investigation.

~~Molecular architecture of the kinetochore-microtubule interface~~

The onset of acute asthma symptoms ranges from hours to weeks. Type I acute asthma, also known as slow-onset asthma, often presents as a gradual deterioration of the clinical scenario, which is ...

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~~Intubation and Mechanical Ventilation of the Asthmatic Patient in Respiratory Failure~~

instead of focusing on the core mechanics of the tool," co-founder and CEO Steven Fabre told me. "We tried existing solutions, but none really stacked up for what we were trying to do so we decided to ...

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[1] In the clinical setting, the PAP is often described ... Altered respiratory mechanics and positive-pressure ventilation may have a significant influence on hemodynamics following cardiac ...

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These models are used in a wide range of applications from investigating children's bone mechanics, to predicting the risk of fracture in elderly, and obstetrics and gynaecology.

~~Dr Xinshan Li~~

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I currently teach a 3rd year undergraduate course in the application of numerical methods to clinical engineering problems ... cover a range of technical areas including structural mechanics, ...

~~Dr Andrew Narracott~~

For eminent service to mechanical and aerospace engineering, and to education as an academic, researcher and author, particularly in the area of aircraft structural mechanics, corrosion repair and ...

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Specific questions should also cover work exposures to common asthma triggers, including exertion (especially in cold weather), plant pollens, animal dander, dust mites, insects, molds, and irritants ...

~~Guidelines for Assessing and Managing Asthma Risk at Work, School, and Recreation~~

During Pitch Day, the graduating teams presented their ventures to a panel of judges. In first place was Drinkable Water Solutions, winning \$5,000. Drinkable is a CleanTech company building a handheld ...

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the Publisher for quality, authenticity, or access to any online entitlements included with the product. Taylor's Clinical Nursing Skills: A Nursing Process Approach Fifth Edition Pamela Lynn, EdD, MSN, RN Confidently meet the challenges of person-centered nursing practice! From basic nursing processes to advanced clinical capabilities, Taylor's Clinical Nursing Skills: A Nursing Process Approach helps you hone your cognitive, technical, interpersonal, and ethical/legal capabilities and master patient interaction, clinical reasoning, and communication skills essential to safe and effective person-centered care. Step-by-step, evidence-based guidelines walk you through common practices and simplify complex procedures, accompanied by key considerations for documentation, delegation, and other tasks you'll encounter throughout the nursing process, from your first day on the job to every stage of your nursing career. Step-by-Step Skills are presented in a concise, straightforward, and simplified two-column format facilitating competent performance of nursing skills. Scientific Rationales accompany each nursing action to promote a deeper understanding of the basic principles supporting nursing care. Unexpected Situations highlight abnormal outcomes while providing explanations of how to react to provide the best care. Evidence for Practice boxes present current best practice guidelines and up-to-date research relevant to the skills. A Nursing Process Framework integrates related nursing responsibilities for each of the five steps. Skill Variations provide clear, start-to-finish instructions for variations in equipment or technique. Documentation Guidelines guide you through accurate documentation of skills and findings. Hand

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Hygiene icons alert you to this crucial step that prevents the spread of microorganisms. Patient Identification icons help you ensure the right patient receives the intervention and prevent errors. Delegation Considerations assist you in developing the critical decision-making skills needed to transfer responsibility for the performance of an activity to another individual.

"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

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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.

Taylor's Handbook of Clinical Nursing Skills is a step-by-step guide to basic and advanced nursing skills. This book will be a quick reference tool for review of cognitive and technical knowledge and will assist students and practicing nurses to provide safe and effective healthcare. It is an ideal companion to any nursing skills or nursing fundamentals text, including Lynn, Taylor's Clinical Nursing Skills and Taylor, Fundamentals of Nursing: The Art and Science of Nursing Care.

The book is the proceedings of the 2nd International Conference on NeuroRehabilitation (ICNR 2014), held 24th-26th June 2014 in Aalborg, Denmark. The conference featured the latest highlights in the emerging and interdisciplinary

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field of neural rehabilitation engineering and identified important healthcare challenges the scientific community will be faced with in the coming years. Edited and written by leading experts in the field, the book includes keynote papers, regular conference papers, and contributions to special and innovation sessions, covering the following main topics: neuro-rehabilitation applications and solutions for restoring impaired neurological functions; cutting-edge technologies and methods in neuro-rehabilitation; and translational challenges in neuro-rehabilitation. Thanks to its highly interdisciplinary approach, the book will not only be a highly relevant reference guide for academic researchers, engineers, neurophysiologists, neuroscientists, physicians and physiotherapists working at the forefront of their field, but will also help to act as bridge between the scientific, engineering and medical communities.

This book provides advanced undergraduate physics and mathematics students with an accessible yet detailed understanding of the fundamentals of differential geometry and symmetries in classical physics. Readers, working through the book, will obtain a thorough understanding of symmetry principles and their application in mechanics, field theory, and general relativity, and in addition acquire the necessary calculational skills to tackle more sophisticated questions in theoretical physics. Most of the topics covered in this book have previously only been scattered across many different sources of literature, therefore this is the first book to coherently present this treatment of topics in one comprehensive volume. Key

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features: Contains a modern, streamlined presentation of classical topics, which are normally taught separately Includes several advanced topics, such as the Belinfante energy-momentum tensor, the Weyl-Schouten theorem, the derivation of Noether currents for diffeomorphisms, and the definition of conserved integrals in general relativity Focuses on the clear presentation of the mathematical notions and calculational technique

Previous editions of this book (formerly published in the Rob & Smith Series) have established it as the pre-eminent guide to operative surgery of the heart and great vessels. This new edition recognizes the increasing subspecialization in surgery by positioning the book for the specialist cardiac surgeon. The work is a major revision edited by two well-respected American surgeons and includes a host of prestigious international contributors. The scope of the book is fully up-to-date with modern practice, including descriptions of minimally invasive and 'off-pump' procedures. Each procedure is illustrated by a series of step-by-step full colour line illustrations of exceptional quality - consistently cited in market research as the best method of demonstrating surgical method - with detailed notes on operative technique. Additional text describes the principles and justification of choosing each procedure, preoperative assessment and preparation including anaesthetic aspects, postoperative care and outcomes. The book is a gold standard teaching aid on operative cardiac surgery for residents and trainees and an invaluable reference for experienced cardiothoracic surgeons approaching unfamiliar or

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uncommon procedures.

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 presents a state-of-the-art summary of the applications of low temperature to clinical situations, together with details of the underlying principles of biology. It provides specific information for the clinicians and research workers in a number of areas of current interest and attempts to provide a unifying theme of cryobiology of interest and value to those researching a clinical problem. Specific topics discussed include the effects of low temperatures on mammalian systems in the absence of ice and how the changes can be modulated to achieve desired results; low temperature storage of tissues and organs for transplantation in the liquid state; the effects of whole body hypothermia in man and how it relates to mammal hibernation; problems associated with ice formation and the subsequent

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freezing of cells and tissues; cryopreservation of blood cells, reproductive cells, and tissues, such as the skin and cornea. Other interesting issues featured include the developments in cryopreservation of large, highly-organized structures and the destructive powers of ice formation in cryosurgery of diseased tissues.

Tailor-Made Polysaccharides in Biomedical Applications provides extensive details on all the vital precepts, basics, and fundamental aspects of tailored polysaccharides in the pharmaceutical and biotechnological industries. This information provides readers with the foundation for understanding and developing high-quality products. The utilization of natural polymeric excipients in numerous healthcare applications demands the replacement of the synthetic polymers with natural polymers. Natural polymers are superior in terms of biocompatibility, biodegradability, economic extraction, and ready availability. Natural polymers are especially useful in that they are a renewable source of raw materials, as long as they are grown sustainably. Among these natural polymers, polysaccharides are considered as excellent excipients because they are nontoxic, stable, and biodegradable. Several research innovations have been carried out using polysaccharides in drug delivery applications. This book offers a comprehensive resource to understand the potential of these materials in forming new drug delivery methods. It will be useful to biomedical researchers, chemical engineers,

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regulatory scientists, and students who are actively involved in developing pharmaceutical products for biomedical applications by using tailor-made polysaccharides. Provides methodology for the design, development, and selection of tailor-made polysaccharides in biomedical applications, including for particular therapeutic applications Includes illustrations demonstrating the mechanism of biological interaction of tailor-made polysaccharides Discusses the regulatory aspects and demonstrates the clinical efficacy of tailor-made polysaccharides

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