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Deterrence and Escalation in Competition with Russia 2022-01-20

us forward military posture can both deter and provoke armed conflict and a similar logic pertains below the level of armed conflict the authors of this report identify how forward posture could deter hostile measures in the competition space below the level of armed conflict through several mechanisms particularly focusing on the presence of us ground forces

Emerging Technologies and International Stability 2021-11-28

technology has always played a central role in international politics it shapes the ways states fight during wartime and compete during peacetime today rapid advancements have contributed to a widespread sense that the world is again on the precipice of a new technological era emerging technologies have inspired much speculative commentary but academic scholarship can improve the discussion with disciplined theory building and rigorous empirics this book aims to contribute to the debate by exploring the role of technology both military and non military in shaping international security specifically the contributors to this edited volume aim to generate new theoretical insights into the relationship between technology and strategic stability test them with sound empirical methods and derive their implications for the coming technological age this book is very novel in its approach it covers a wide range of technologies both old and new rather than emphasizing a single technology furthermore this volume looks at how new technologies might affect the broader dynamics of the international system rather than limiting the focus to a stability the contributions to this volume walk readers through the likely effects of emerging technologies at each phase of the conflict process the chapters begin with competition in peacetime move to deterrence and coercion and then explore the dynamics of crises the outbreak of conflict and war escalation in an environment of emerging technologies the chapters in this book except for the introduction and the conclusion were originally published in the journal of strategic studies

Dose Finding in Drug Development 2006-12-29

if you have ever wondered when visiting the pharmacy how the dosage of your prescription is determined this book will answer your questions dosing information on drug labels is based on discussion between the pharmaceutical manufacturer and the drug regulatory agency and the label is a summary of results obtained from many scientific experiments the book introduces the drug development process the design and the analysis of clinical trials many of the discussions are based on applications of statistical methods in the design and analysis of dose response studies important procedural steps from a pharmaceutical industry perspective are also examined

Textbook of Medical Oncology 1999-11-09

effective care of the cancer patient increasingly involves systemic treatment and as the range of available therapeutic agents continues to expand the medical oncologist must be fully aware of the combinations this new edition provides a practical overview of the many treatment choices and has been fully updated including discussion of new classification systems anticancer agents and treatment protocols

Journal of the National Cancer Institute 1994

in this volume the specific challenges and problems facing the evaluation of new oncology agents are explored with regards to pharmacokinetic pharmacodynamic modeling and clinical pharmacology development strategies this book delivers with an emphasis on the oncology therapeutic area the goals set in the first three volumes namely to provide clinical pharmacologists practical insights for the application of pharmacology pharmacokinetics and pharmacodynamics for new drug development strategies pharmacokinetic pharmacodynamic concepts for tyrosine kinases the evaluation of cardiac repolarization prolongation through qtc interval effects efficacy and safety response analyses to support new drug approvals clinical and preclinical tumor growth modeling and flat vs weight based dose selection are showcased from an oncology clinical pharmacologist s point of view oncology development strategies are surveyed for new fda approvals to identify patterns in expectations at time of first approval the special considerations necessary to address combination drug development metronomics biosimilars and breakthrough therapies are also presented

Pharmacokinetics in Drug Development 2016-10-06

the pharmaceutical industry is on the verge of an exciting and challenging century advances in pharmaceutical sciences have dramatically changed the processes of discovery and development of new therapeutic drugs and in turn resulted in an extraordinary increase in the potential prophylactic and therapeutic interventions in this atmosphere an

The Budget of the United States Government 1985

the ultimate source of information on the design of new anticancer agents emphasizing small molecules this newest work covers recent notable successes resulting from the human genome and cancer genomics projects these advances have provided information on targets involved in specific cancers that are leading to effective medicines

for at least some of the common solid tumors unique sections explain the basic underlying principles of cancer drug development and provide a practical introduction to modern methods of drug design appealing to a broad audience this is an excellent reference for translational researchers interested in cancer biology and medicine as well as students in pharmacy pharmacology or medicinal and biological chemistry and clinicians taking oncology options covers both currently available drugs as well as those under development provides a clinical perspective on trials of new anticancer agents presents drug discovery examples through the use of case histories

Clinical Trials of Drugs and Biopharmaceuticals 2005-09-19

section 1 sepsis diagnosis and management 1 precision medicine in septic shock 2 optimal blood pressure target in patients with septic shock 3 the surviving sepsis campaign guidelines in 2022 what is new and what has changed 4 individualizing hemodynamics in septic shock 5 adjunctive therapies in sepsis current status 6 refractory septic shock what are the options 7 steroids in sepsis and clinical outcomes 8 candida auris detection prevention and management 9 empirical antifungal treatment is it justified 10 role of steroids in severe community acquired pneumonia 11 procalcitonin can it differentiate bacterial versus fungal infection section 2 antimicrobial therapy in icu 12 optimizing antimicrobial dosing in the intensive care unit 13 antibiotic within 1 hour should this be applied to all patients with sepsis 14 dark side of antibiotics 15 optimal duration of antibiotic therapy 16 cefiderocol is this the answer to multidrug resistant gram negative infection section 3 respiratory critical care 17 management of pneumonia in intensive care 18 reverse triggering during controlled ventilation a frequent dysynchrony with various consequences 19 use of multiplex polymerase chain reaction in pneumonia 20 management of complicated pleural effusion 21 hepatic hydrothorax 22 submassive pulmonary embolism 23 role of magnesium in respiratory failure 24 ards in children how is it different 25 safe tracheal intubation in intensive care unit 26 lateral positioning does it work 27 dyspnea in patients on invasive ventilation clinical impact 28 complications of noninvasive ventilation failure section 4 mechanical ventilation 29 setting optimum peep 30 open lung or keep lung closed which strategy to choose 31 driving pressure or mechanical power which one to monitor 32 measuring respiratory drive and muscle effort 33 oxygenation targets in mechanically ventilated critically ill patients 34 ventilatory ratio a new monitoring tool 35 helmet niv is it a game changer 36 electrical impedance tomography current application 37 automatic tube compensation does it have a role 38 high frequency oscillatory ventilation in pediatric acute respiratory distress syndrome 39 noninvasive ventilation in pediatrics current status section 5 cardiovascular critical care 40 crystalloid resuscitation finding the balance 41 artificial intelligence tools to optimize hemodynamics in the icu 42 aggressive or restrictive fluid resuscitation 43 predicting hypotension is it useful 44 vasopressors how early 45 myocardial injury after noncardiac surgery 46 use of vasopressin during cardiac arrest section 6 echocardiography and ultrasound 47 advances in intensive care unit echocardiography 48 transesophageal echocardiography is it preferable in the intensive care unit 49 echo features of pulmonary hypertension and increased left atrial pressures 50 role of echocardiography in shock state 51 use of echocardiography in assessing fluid responsiveness 52 venous excess ultrasound score vexus section 7 nephrology fluids acid base balance and electrolytes balance 53 fluid management in acute kidney injury 54 sepsis associated acute kidney injury common but poorly understood 55 delayed versus very delayed renal replacement therapy 56 plasma exchange in intensive care unit current status 57 acute kidney injury care bundle 58 biomarker driven therapy in aki 59 how to approach dyselectrolytemias in a patient on crrt section 8 neurocritical care 60 prognostication in

Cancer Drug Design and Discovery 2011-04-28

focusing on the fundamentals that underlie the clinical use and contemporary development of pharmaceuticals this text includes examples to demonstrate the central role of pharmacokinetic principles in both clinical practice and drug development

Department of Defense Appropriations 1979

thoene summarises the substantial work that has been accomplished in the treatment of inborn errors of metabolism with simple molecules this handbook will enable interested clinician scientists to rapidly survey the field thus ascertaining what has been done as well as future directions for therapeutic research its important introductory chapters discuss the infrastructure of the field the book closely analyses the cofactors used to augment the function of defective enzymes and the compounds that are able to utilise an alternative pathway in order to avoid the consequences of the metabolic block present in the patient among other therapies the authors discuss the use of zinc and tetrathiomolybdate to treat wilson s disease and the use of cysteamine to treat nephropathic cystinosis

A Practical Guide to MR-Linac 1979

pharmaceutical perspectives of cancer therapeutics covers a wide variety of therapeutic approaches including gene therapy immunological therapy cancer vaccines strategy for solid tumors as well as for hematological cancers methods to suppress tumor angiogenesis and metastasis development and utilization of relevant animal models introduction of new concepts such as cancer stem cells and new technologies such as dna and tissue microarrays and rna interference in addition clinical application the development of dna diagnosis biomarkers and cancer prevention as well as the utilization of imaging in cancer therapy are also discussed the use of synthetic carriers such as lipids polymers and peptides for delivery and targeting of small molecules proteins and nucleic acids to cancer cells in vivo are discussed pharmaceutical perspectives of cancer therapeutics also includes cancer therapy

modality in surgery chemotherapy and radiotherapy as well as in combination or multi modality giving our book a more focused view of cancer therapy

Department of Defense Appropriations for Fiscal Year 1980: Procurement 2023-02-22

this second edition volume expands on the previous edition with updates about the latest state of the art techniques used in leading hemostasis and thrombosis laboratories for diagnosis and exclusion of hemorrhagic and thrombotic diseases the chapters in this book are organized into seven parts part one provides a general overview on hemostasis and thrombosis preanalytical issues in testing and routine hemostasis assays part two covers laboratory testing for thrombophilia including reviews for activated protein c resistance protein c lupus anticoagulant testing and antiphospholipid antibodies part three addresses monitoring continuous anticoagulant infusions and measuring the effects of oral anti thrombotic therapy part four talks about heparin induced thrombocytopenia and vaccine induced immune thrombotic thrombocytopenia part five and six cover adamts13 activity testing and new information on bleeding disorders such as chromogenic factor viii assays measurement of emicizumab and treatment of hemophilia a and b finally part seven discusses global assays research applications and postanalytical considerations written in the highly successful methods in molecular biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls cutting edge and comprehensive hemostasis and thrombosis methods and protocols second edition is a valuable resource for scientists and researchers struggling to identify the appropriate methods for hemostasis and thrombosis testing or who seek additional expert guidance on such testing

Critical Care Update 2023 2023-01-09

this book offers a complete discussion of product development in the pharmaceutical and biotechnology industries from discovery to product launch through life cycle management the book is organized for optimal usefulness in the education and training of health care professionals md pharmd phd at universities the format is a set of figures tables and lists along with detailed narrative descriptions including real life examples illustrations controversies in industry and references the editors and authors of the book are industry and research experts in a variety of disciplines

Personalized Radiation Therapy: Guided with Imaging Technologies 2012-09-18

good clinical practice eregs guides provides a reference to key us fda guides and regulations via your electronic reader an excellent way to access the reference documents on your e reader no need to carry paper books and you can search for key terms in this issue you will find ich q8 pharmaceutical development ich q9 quality risk management ich q10 pharmaceutical quality system

Principles of Clinical Pharmacology 1986

proceedings of a conference sponsored by the american association of pharmaceutical scientists the u s food and drug administration and the american society for clinical pharmacology and therapeutics held in arlington virginia april 24 26 1991

Cancer Treatment Reports 2010-08-23

a systematic review of the most current decision models and techniques for disease prevention and treatment decision analytics and optimization in disease prevention and treatment offers a comprehensive resource of the most current decision models and techniques for disease prevention and treatment with contributions from leading experts in the field this important resource presents information on the optimization of chronic disease prevention infectious disease control and prevention and disease treatment and treatment technology designed to be accessible in each chapter the text presents one decision problem with the related methodology to showcase the vast applicability of operations research tools and techniques in advancing medical decision making this vital resource features the most recent and effective approaches to the quickly growing field of healthcare decision analytics which involves cost effectiveness analysis stochastic modeling and computer simulation throughout the book the contributors discuss clinical applications of modeling and optimization techniques to assist medical decision making within complex environments accessible and authoritative decision analytics and optimization in disease prevention and treatment presents summaries of the state of the art research that has successfully utilized both decision analytics and optimization tools within healthcare operations research highlights the optimization of chronic disease prevention infectious disease control and prevention and disease treatment and treatment technology includes contributions by well known experts from operations researchers to clinical researchers and from data scientists to public health administrators offers clarification on common misunderstandings and misnomers while shedding light on new approaches in this growing area designed for use by academics practitioners and researchers decision analytics and optimization in disease prevention and treatment offers a comprehensive resource for accessing the power of decision analytics and optimization tools within healthcare

operations research

Small Molecule Therapy for Genetic Disease 2009-06-23

this issue of interventional cardiology clinics guest edited by drs william l lombardi and kathleen e kearney will focus on chronic total occlusion topics discussed in this issue include but are not limited to indications for percutaneous coronary intervention of cto pre procedure planning for cto pci toolbox for cto pci antegrade wire escalation case selection and strategies step by step antegrade dissection and reentry and case selection retrograde dissection and reentry strategies star and spm the role of imaging in chronic total occlusions hybrid 2 0 perforation mechanisms risk stratification and management in the non post cabg patient perforation mechanisms risk stratification and management in the post cabg patient access selection and complications patient selection for hemodynamic support in high risk pci other complications in cto pci and managing the cto operator

Pharmaceutical Perspectives of Cancer Therapeutics 2023-05-19

interventional cardiology the updated guide to understanding and implementing today s interventional cardiology procedures minimally invasive methods of cardiovascular intervention are developing apace propelled by unprecedented advancements in technology and procedural expertise bearing exciting implications for a broad range of adjacent fields of surgery and patient care these innovative techniques are of ever increasing importance not only within cardiology but across medicine as a whole this third edition of interventional cardiology is designed to equip practitioners of all levels with a working knowledge of today s best and most up to date practices as well as the fundamental principles that underlie their use expertly revised to span coronary interventions interventional pharmacology structural heart interventions endovascular therapy and more its modular sections are accompanied by multiple choice questions to help aid learning and self assessment the new edition of interventional cardiology features a thorough survey of the field including atherogenesis and inflammation vascular access controversies radiation protection concepts acute and chronic interventional pharmacology recommendations for high risk subjects procedures evaluations with imaging and physiology including physiologic assessment in the cardiac catheterization lab intravascular ultrasound and optical coherence tomography discussions of revascularization in various clinical settings including stable coronary heart disease acute myocardial infarction the management of cardiogenic shock and hemodynamic support devices and techniques examinations of coronary interventions in various lesion types including complex lesions left main bifurcations cto heart valve disease and relevant percutaneous interventions including preop imaging and clinical evaluations and outcomes assessment in great depth and with technical details left atrial interventions are an expanding frontier peripheral vascular carotid and aorta branch diseases are covered in greater detail than previous editions venous disease treatments have become well established accompanied by a companion website featuring videos illustrating key procedures and interactive multiple choice questions whether studying for certification or already working in advanced practice medical professionals of all kinds will benefit greatly from the practical instruction and cutting edge knowledge found within this vital third edition

Hemostasis and Thrombosis 1975

issues in medical lasers imaging and devices research and application 2013 edition is a scholarlyeditions book that delivers timely authoritative and comprehensive information about medical ultrasonography the editors have built issues in medical lasers imaging and devices research and application 2013 edition on the vast information databases of scholarlynews you can expect the information about medical ultrasonography in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant the content of issues in medical lasers imaging and devices research and application 2013 edition has been produced by the world s leading scientists engineers analysts research institutions and companies all of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at scholarlyeditions and available exclusively from us you now have a source you can cite with authority confidence and credibility more information is available at scholarlyeditions com

Fiscal Year 1976 and July-September 1976 Transition Period Authorization for Military Procurement, Research and Development, and Active Duty, Selected Reserve, and Civilian Personnel Strengths 2007-08-14

issues in cancer epidemiology and research 2011 edition is a scholarlyeditions ebook that delivers timely authoritative and comprehensive information about cancer epidemiology and research the editors have built issues in cancer epidemiology and research 2011 edition on the vast information databases of scholarlynews you can expect the information about cancer epidemiology and research in this ebook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant the content of issues in cancer epidemiology and research 2011 edition has been produced by the world s leading scientists engineers analysts research institutions and companies all of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at scholarlyeditions and available exclusively from us you now have a source you can cite with authority confidence and credibility more information is available at scholarlyeditions com

Drug and Biological Development 2013-11-22

handbook of methods for designing monitoring and analyzing dose finding trials gives a thorough presentation of state of the art methods for early phase clinical trials the methodology of clinical trials has advanced greatly over the last 20 years and arguably nowhere greater than that of early phase studies the need to accelerate drug development in a rapidly evolving context of targeted therapies immunotherapy combination treatments and complex group structures has provided the stimulus to these advances typically we deal with very small samples sequential methods that need to be efficient while at the same time adhering to ethical principles due to the involvement of human subjects statistical inference is difficult since the standard techniques of maximum likelihood do not usually apply as a result of model misspecification and parameter estimates lying on the boundary of the parameter space bayesian methods play an important part in overcoming these difficulties but nonetheless require special consideration in this particular context the purpose of this handbook is to provide an expanded summary of the field as it stands and also through discussion provide insights into the thinking of leaders in the field as to the potential developments of the years ahead with this goal in mind we present an introduction to the field for graduate students and novices a basis for more established researchers from which to build a collection of material for an advanced course in early phase clinical trials a comprehensive guide to available methodology for practicing statisticians on the design and analysis of dose finding experiments an extensive guide for the multiple comparison and modeling mcp mod dose finding approach adaptive two stage designs for dose finding as well as dose time response models and multiple testing in the context of confirmatory dose finding studies john o quigley is a professor of mathematics and research director at the french national institute for health and medical research based at the faculty of mathematics university pierre and marie curie in paris france he is author of proportional hazards regression and has published extensively in the field of dose finding alexia iasonos is an associate attending biostatistician at the memorial sloan kettering cancer center in new york she has over one hundred publications in the leading statistical and clinical journals on the methodology and design of early phase clinical trials dr iasonos has wide experience in the actual implementation of model based early phase trials and has given courses in scientific meetings internationally björn bornkamp is a statistical methodologist at novartis in basel switzerland researching and implementing dose finding designs in phase ii clinical trials he is one of the co developers of the mcp mod methodology for dose finding and main author of the dosefinding r package he has published numerous papers on dose finding nonlinear models and bayesian statistics and in 2013 won the royal statistical society award for statistical excellence in the pharmaceutical industry

Good Clinical Practice eRegs & Guides - For Your Reference Book 3 2013-11-11

the long shadow investigates the purposes and roles of nuclear weapons in the new security environment the nature and content of the national nuclear strategies of relevant states and their implications for international security and stability in the asian security region

Integration of Pharmacokinetics, Pharmacodynamics, and Toxicokinetics in Rational Drug Development 2018-03-13

this new edition reflects the explosion of knowledge in basic science and clinical care for athletes with mild traumatic brain injury or concussion interest in management and methodology for making diagnoses and improving the clinical outcomes have changed dramatically all u s states have laws dictating how sports concussion patients are cared for and require return to play decisions be coordinated with best practice methods epidemiology classification and biology of sports concussion as well as brain imaging assessment tests neuropsychological measures and management strategies are covered illustrative clinical cases correlative examples and historical insights are featured

Decision Analytics and Optimization in Disease Prevention and Treatment 2020-12-04

how to thrive as a newly registered nurse provides a structured programme of support for nursing students and newly registered nurses during their first year of registration fully updated and packed with practical examples tips and advice and featuring vignettes from recently registered nurses this book will help you to choose your first nursing post and secure the job you really want structure your learning and development in the early stages of your career work in a team prioritise your care giving and delegate to others understand safe staffing patient acuity and dependency tools care planning and risk assessment tools learn how to escalate concerns and report incidents understand mental capacity assessment to guide your decisions in practice understand how to access research opportunities and funding for education plan your future professional development and career progression here s what some reviewers said this book reads like you ve got the loveliest mentor you ve ever had holding your hand through the transition from student nurse to registered nurse just reading it made me feel calmer and better prepared about my imminent start in my opinion carol forde johnston s book is the best transition book i ve read this book is well written and very helpful i recommend it to all our preceptees and they are all grateful to the author for such a wonderful book one of my preceptees called it a manual for all new nurses i noticed that it answered many of the questions i was always embarrassed to ask as i thought i should have already known those things

drawing on over 34 years experience supporting students and newly registered nurses carol forde johnston has written an accessible and practical book that aims to respond to the questions and concerns that her students and nrns frequently raise and to help you thrive as a newly registered nurse

Chronic Total Occlusion, An Issue of Interventional Cardiology Clinics, EBook 1979

this issue provides fully updated information on respiratory infections including healthcare associated pneumonia new diagnostic tests for pneumonia epidemic viral pneumonia and other emerging pathogens biomarkers to optimize antibiotic therapy for pneumonia pharmacokinetics and pharmacodynamics to improve management of pneumonia nosocomial tracheobronchitis and bronchiectasis are also discussed articles on cap and vap including an examination of the impact of guidelines on outcomes de escalation therapy inhaled antibiotic therapy and prevention of vap are also included

Hearings on Military Posture and H.R. 1872 (H.R. 4040), Department of Defense Authorization for Appropriations for Fiscal Year 1980, and H.R. 2575 (S. 429), Department of Defense Supplemental Authorization for Appropriations for Fiscal Year 1979, Before the Committee on Armed Services, House of Representatives, Ninety-sixth Congress, First Session: Seapower and Strategic and Critical Materials Subcommittee 2022-05-09

advances in radiotherapy research and application 2013 edition is a scholarly editions book that delivers timely authoritative and comprehensive information about brachytherapy the editors have built advances in radiotherapy research and application 2013 edition on the vast information databases of scholarly news you can expect the information about brachytherapy in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant the content of advances in radiotherapy research and application 2013 edition has been produced by the world s leading scientists engineers analysts research institutions and companies all of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at scholarly editions and available exclusively from us you now have a source you can cite with authority confidence and credibility more information is available at scholarly editions com

Interventional Cardiology 1978

this is the third completely updated edition of a comprehensive book in which many of the world s leading lung cancer specialists discuss the recent advances in the radiation oncology of lung cancer and reflect on the latest research findings in lung cancer and other intrathoracic malignancies lung cancer remains the major cancer killer in both sexes worldwide it is so despite significant progress in recent decades in both diagnostic and treatment approaches new biological and technological advances in this field are now faster incorporated in the overall decision making process and are bringing fast and substantial improvements in both survivals and quality of life of lung cancer patients optimized patient oriented approaches are reality of the third decade of this millennium and thoracic oncologists strive towards nothing but seamlessly delivering it in a continuous battle with lung cancer the first three sections of the work cover the basic science of lung cancer clinical investigations including histology and staging and a wide range of fundamental treatment considerations current treatment strategies for small cell and non small cell lung cancer as well as other intrathoracic malignancies are then explained and evaluated in detail with due attention to novel approaches that promise further improvements in outcome the various types of treatment related toxicity are discussed and quality of life studies and prognostic factors are also considered after evaluating the latest technological and biological advances including stereotactic radiotherapy and particle therapy the book concludes by thorough consideration of specific aspects of clinical research in lung cancer this concise yet comprehensive book is an invaluable resource for radiation oncologists

Hearings on Military Posture and H.R. 10929 2013-05-01

Issues in Medical Lasers, Imaging, and Devices Research and Application: 2013 Edition 2012-01-09

Issues in Cancer Epidemiology and Research: 2011 Edition 2017-04-27

Handbook of Methods for Designing, Monitoring, and Analyzing Dose-Finding Trials 2008

The Long Shadow 2017-11-22

Sports-Related Concussion 2023-09-11

How to Thrive as a Newly Registered Nurse, second edition 1972

Forest Service Research Paper SO. 2011-09-23

Pulmonary Infections, An Issue of Sleep Medicine Clinics - E-Book 2013-06-21

Advances in Radiotherapy Research and Application: 2013 Edition 2023-08-14

Advances in Radiation Oncology in Lung Cancer 1976

Department of Defense Appropriations for 1977 1976

Department of Defense Appropriations for 1977: Procurement

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