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SENIOR CERTIFICATE**

GRADE 12

PHYSICAL SCIENCES: CHEMISTRY (P2)

NOVEMBER 2024

Physical Sciences Paper 2 September 2013 Memo

Keri Grieman



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Spacecraft Dynamics and Control Enrico Canuto, Carlo Novara, Donato Carlucci, Carlos Perez-Montenegro, Luca Massotti, 2018-03-08 Spacecraft Dynamics and Control The Embedded Model Control Approach provides a uniform and systematic way of approaching space engineering control problems from the standpoint of model based control using state space equations as the key paradigm for simulation design and implementation The book introduces the Embedded Model Control methodology for the design and implementation of attitude and orbit control systems The logic architecture is organized around the embedded model of the spacecraft and its surrounding environment The model is compelled to include disturbance dynamics as a repository of the uncertainty that the control law must reject to meet attitude and orbit requirements within the uncertainty class The source of the real time uncertainty estimation prediction is the model error signal as it encodes the residual discrepancies between spacecraft measurements and model output The embedded model and the uncertainty estimation feedback noise estimator in the book constitute the state predictor feeding the control law Asymptotic pole placement exploiting the asymptotes of closed loop transfer functions is the way to design and tune feedback loops around the embedded model state predictor control law reference generator The design versus the uncertainty class is driven by analytic stability and performance inequalities The method is applied to several attitude and orbit control problems The book begins with an extensive introduction to attitude geometry and algebra and ends with the core themes state space dynamics and Embedded Model Control Fundamentals of orbit attitude and environment dynamics are treated giving emphasis to state space formulation disturbance dynamics state feedback and prediction closed loop stability Sensors and actuators are treated giving emphasis to their dynamics and modelling of measurement errors Numerical tables are included and their data employed for numerical simulations Orbit and attitude control problems of the European GOCE mission are the inspiration of numerical exercises and simulations The suite of the attitude control modes of a GOCE like mission is designed and simulated around the so called mission state predictor Solved and unsolved exercises are included within the text and not separated at the end of chapters for better understanding training and application Simulated results and their graphical plots are developed through MATLAB Simulink code

Encyclopedia of Information Science and Technology, Third Edition Khosrow-Pour, D.B.A., Mehdi, 2014-07-31 This 10 volume compilation of authoritative research based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology Provided by publisher

Law, Death, and Robots Keri Grieman, 2024-10-17 Can the law keep up with AI This book examines liability and regulation for artificial intelligence causing serious physical harm both now and in the future While AI moves quickly regulation follows more slowly an increasing problem for an evolutionary fast paced emerging technology AI has the potential to save lives but in doing so will have the potential to take them as well How do we future proof law and

regulation to incentivise life saving innovation as safely as possible This book details how to regulate AI in high risk civil applications for example automated vehicles and medicine addressing both liability and regulatory structure It highlights crucial liability themes for technology governance provides tools to bridge the gap between regulators and technologists examines jurisdictional approaches to AI regulation in the EU UK USA and Singapore and ultimately suggests a jurisdiction agnostic blueprint for regulation

The British Battleship 1906-1946 Norman Friedman, 2015-09-30 The British battleship is one of the most intensely studied of all naval topics but it is also among the most popular Norman Friedman is one of the most highly regarded of all naval writers with an avid following for his work Therefore a new book on British battleships by Friedman is a major event and has been eagerly awaited ever since knowledge of the project began to circulate among enthusiasts Friedman has the ability to bring new ideas to even the most over worked subjects based on extensive original research and a talent for explaining technology in the wider context of politics economics and strategy His latest book covers the development of Royal Navy capital ships including battlecruisers from the pre history of the revolutionary Dreadnought of 1906 to the last of the line HMS Vanguard in 1946 Replete with original insights the story that emerges will enlighten and surprise even the most knowledgeable The attraction of the book is enhanced by sets of specially commissioned plans of the important classes by John Roberts and A D Baker III both renowned experts in their own right plus a colour section featuring the original Admiralty draughts including a spectacular double gatefold For many with an interest in warships this will be the book of the year

Overpowered Martin Blank, PhD, 2014-09-16 Keys wallet cell phone ready to go Cell phones have become ubiquitous fixtures of twenty first century life suctioned to our ears and stuck in our pockets Yet we've all heard whispers that these essential little devices give you brain cancer Many of us are left wondering as Maureen Dowd recently asked in the New York Times Are cells the new cigarettes Overpowered brings readers in accessible and fascinating prose through the science indicating biological effects resulting from low non thermal levels of non ionizing electromagnetic radiation levels considered safe by regulatory agencies coming not only from cell phones but many other devices we use in our homes and offices every day Dr Blank arms us with the information we need to lobby government and industry to keep ourselves and our families safe

The Lab Book Darren Wershler, Lori Emerson, Jussi Parikka, 2022-03-22 An important new approach to the study of laboratories presenting a practical method for understanding labs in all walks of life From the Big Science of Bell Laboratories to the esoteric world of science chambers to university media labs to neighborhood makerspaces places we call labs are everywhere but how exactly do we account for the wide variety of ways that they produce knowledge More than imitations of science and engineering labs many contemporary labs are hybrid forms that require a new methodological and theoretical toolkit to describe The Lab Book investigates these vital creative spaces presenting readers with the concept of the hybrid lab and offering an extended and rare critical investigation of how labs have proliferated throughout culture Organized by interpretive categories such as space infrastructure and imaginaries The Lab Book uses

both historical and contemporary examples to show how laboratories have become fundamentally connected to changes in the contemporary university Its wide reach includes institutions like the MIT Media Lab the Tuskegee Institute s Jesup Wagon ACTLab and the Media Archaeological Fundus The authors cover topics such as the evolution and delineation of lab based communities how labs tools and technologies contribute to defining their space and a glossary of key hybrid lab techniques Providing rich historical breadth and depth The Lab Book brings into focus a critical but often misunderstood aspect of the contemporary arts and humanities Heat Pipes David Reay,Ryan McGlen,Peter Kew,2013-10-01 Heat Pipes Sixth Edition takes a highly practical approach to the design and selection of heat pipes making it an essential guide for practicing engineers and an ideal text for postgraduate students This new edition has been revised to include new information on the underlying theory of heat pipes and heat transfer and features fully updated applications new data sections and updated chapters on design and electronics cooling The book is a useful reference for those with experience and an accessible introduction for those approaching the topic for the first time Contains all information required to design and manufacture a heat pipe Suitable for use as a professional reference and graduate text Revised with greater coverage of key electronic cooling applications People's Diplomacy Kazushi Minami,2024-03-15 In People s Diplomacy Kazushi Minami shows how the American and Chinese people rebuilt US China relations in the 1970s a pivotal decade bookended by Richard Nixon s 1972 visit to China and 1979 normalization of diplomatic relations Top policymakers in Washington and Beijing drew the blueprint for the new bilateral relationship but the work of building it was left to a host of Americans and Chinese from all walks of life who engaged in people to people exchanges After two decades of estrangement and hostility caused by the Cold War these people dramatically changed the nature of US China relations Americans reimagined China as a country of opportunities irresistible because of its prodigious potential while Chinese reinterpreted the United States as an agent of modernization capable of enriching their country and rejuvenating their lives Drawing on extensive research at two dozen archives in the United States and China People s Diplomacy redefines contemporary US China relations as a creation of the American and Chinese people Pacific International Conference on Aerospace Science and Technology ,1994

Creativity in Large-Scale Contexts Jonathan S. Feinstein,2023-11-07 A new model for smarter creativity Innovators and creators work in cultural economic and social contexts that shape their work These contexts are large scale filled with overwhelming multitudes of elements and possibilities but these contexts can be fruitfully mined by creative teams Creativity in Large Scale Contexts by Yale professor Jonathan S Feinstein introduces a groundbreaking new network model to describe how successful innovation can be focused generated and accelerated The book will help teams and organizations innovate smarter and faster Feinstein argues that in large scale contexts creativity happens most efficiently when it is actively guided by a creative leader or team Guiding creativity involves understanding navigating and actively using the cultural context identifying puzzles and opportunities and spanning these tensions to create novel connections With thoughtful guidance

creators and creative teams can find their way through the thicket of possibilities faster smarter and with less waste Creativity in Large Scale Contexts draws on case studies of famous creators including Virginia Woolf Albert Einstein Indigenous artist Clifford Possum transgender activist and engineer Lynn Conway and Twitter cofounder Jack Dorsey Empirically grounded this book will be essential for teaching and managing creativity and innovation and will open new avenues for future intellectual growth and practice in the field *Fatigue and Corrosion in Metals* Pietro Paolo

Milella, 2024-03-19 With its combination of readability love for details and rigor *Fatigue and Corrosion in Metals* has become an authoritative reference work that has quickly established itself as the most comprehensive guide for fatigue and corrosion design available to date It has been adopted by several universities as reference textbook and consulted by professional engineers and scholars worldwide This must have Second Edition completely revisited to account for advances in the decade since the previous edition was published includes A new Chapter on damage nucleation A new Chapter on Very High Cycle Fatigue A new Chapter on fatigue testing and fatigue S N curve determination Expanded analysis of surface treatments and inclusions effect on fatigue Expanded treatment of volume process effect on fatigue Expanded treatments of corrosion and hydrogen embrittlement In addition to these enhancements it includes a detailed treatment of Phenomenology and morphological aspects of fatigue Surface treatments conditions and nonmetallic inclusions effects on fatigue Stress and strain based fatigue analysis Mean stress and notch effect on fatigue Cumulative damage and multiaxial fatigue Probabilistic analysis application to fatigue design Fatigue in welds Stress corrosion and hydrogen embrittlement Fracture mechanics application to fatigue and corrosion It serves as a valuable and needful information source on the desktop of anyone involved with fatigue and corrosion in metals **Algebraic $\overline{\mathbb{Q}}$ -Groups as Abstract Groups** Olivier

Frécon, 2018-10-03 The author analyzes the abstract structure of algebraic groups over an algebraically closed field For of characteristic zero and a given connected affine algebraic $\mathbb{Q}$ group the main theorem describes all the affine algebraic $\mathbb{Q}$ groups such that the groups and are isomorphic as abstract groups In the same time it is shown that for any two connected algebraic $\mathbb{Q}$ groups and the elementary equivalence of the pure groups and implies that they are abstractly isomorphic In the final section the author applies his results to characterize the connected algebraic groups all of whose abstract automorphisms are standard when is either $\mathbb{Q}$ or of positive characteristic In characteristic zero a fairly general criterion is exhibited *Advances in Automation III* Andrey A. Radionov, Vadim R. Gasiyarov, 2022-01-18 This book reports on innovative research and developments in automation Spanning a wide range of disciplines including communication engineering power engineering control engineering instrumentation signal processing and cybersecurity it focuses on methods and findings aimed at improving the control and monitoring of industrial and manufacturing processes as well as safety Based on the International Russian Automation Conference held on September 5 11 2021 in Sochi Russia the book provides academics and professionals with a timely overview of and extensive information on the state of the art in the field of automation and control

systems and fosters new ideas and collaborations between groups in different countries Science John Michels (Journalist),2010 *Radio Wave Propagation* Chas. R. Burrows,2013-10-22 Radio Wave Propagation Consolidated Summary Technical Report of the Committee on Propagation of the National Defense Research Committee presents all the scientific information and report of experiments This book discusses the problems encountered in the propagation of radio waves Organized into three volumes this book begins with an overview of the technical developments in the study of tropospheric propagation This text then outlines the general theory of standard and nonstandard propagation together with descriptions and results of transmission experiments designed to test the theory Other chapters consider the more unusual problems concerning the radar behavior of targets This book discusses as well the problems of radio wave propagation in the standard atmosphere at frequencies above 30 megacycles The final chapter deals with the selection and utilization of local terrain features that affect propagation and the performance of equipment This book is a valuable resource for scientists and engineers in the field of radio wave propagation *Debating Terrorism and Counterterrorism* Stuart Gottlieb,2013-03-29 Featuring paired pro con pieces written specifically for this volume *Debating Terrorism and Counterterrorism* Conflicting Perspectives on Causes Contexts and Responses encourages students to grapple with the central debates surrounding the field of terrorism With topics ranging from the root causes of terrorism the role of religion in terrorism whether suicide terrorism is ever justified whether the spread of democracy can help defeat terrorism and what trade offs should exist between security and civil liberties Gottlieb s outstanding cast of contributors returns compelling students to wrestle with the conflicting perspectives that define the field Stuart Gottlieb frames the paired essays with incisive headnotes providing historical context and preparing students to read each argument critically Each selection has been updated to account for recent world events policy changes and new scholarship New to the reader and by reviewer request is a chapter Can Global Institutions Make a Difference in Fighting Terrorism **Radiological Monitoring of the Environment** B. C. Godbold,J. K. Jones,2013-09-03 *Radiological Monitoring of the Environment* documents the proceedings of a symposium organized by The Central Electricity Generating Board in association with The Joint Health Physics Committee held at Berkeley Gloucestershire on 3 4 October 1963 Environmental monitoring in its different aspects is of interest to most health physicists and in particular to those of the Generating Board in relation to nuclear power stations and nuclear laboratories The symposium served the dual purpose of disseminating information on a subject of importance and fulfilling one of the objectives of the Joint Health Physics Committee by bringing together people working in various fields This volume is divided into two parts following the way in which the symposium was arranged The first part of the volume contains the papers and the second part consists of the transactions of the meeting at Berkeley The papers presented cover topics such as radioactivity in agricultural products the monitoring of artificial radioactivity in waters round the British Isles the monitoring of uranium and plutonium dust hazards radiological control in university laboratories and environmental surveys around

research reactors **Mason and McCall Smith's Law and Medical Ethics** Kenyon Mason, Graeme Laurie, Alexander
McCall Smith, 2013-06-06 This classic textbook focuses on medical law and its relationship with medical practice and modern
ethics Offering medical as well as legal facts it provides thorough coverage of all of the topics found on medical law courses
and in depth analysis of recent court decisions encouraging students to think analytically about the subject [Books in Print](#)
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web 7 at the end of meiosis i two cells have been produced how many replicated chromosomes are in each of these cells 8 cells with a full set of chromosomes are referred to as diploid or $2n$ whereas cells with half the chromosomes are haploid or n at which stage s of meiosis 1 are the cells diploid and at which stage s are they haploid 9

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