

Physical Sciences

November

EXAM PAPERS

Physical Science Paper 1 November 2013 Memo

Rita R Colwell, Daniela Ceccarelli



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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

The Secure and the Dispossessed Nick Buxton, Ben Hayes, 2015-11-20 While the world's scientists and many of its inhabitants despair at the impact of climate change corporate and military leaders see nothing but opportunities For them melting ice caps mean newly accessible fossil fuels borders to be secured from climate refugees social conflicts to be managed and more failed states in which to intervene They are securing their assets at the expense of the planet and its inhabitants The Secure and the Dispossessed looks at these deadly approaches with a critical eye It also considers the flip side that the legitimacy of the elite is under unprecedented pressure from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy food and water Topics covered include geoengineering militarism refugee protection greenwashing and the

agricultural crisis among others Adaptation and resilience to a climate changed world is desperately needed but the form it will take will affect all of our futures **Ancient Fire, Modern Fire** Einar Jensen, 2016-02-16 Creating fire is easy yet understanding and learning to live with this friend and foe has never been easy stopping fire is a dangerous and often deadly pursuit Drawing on his experiences as an environmental historian firefighter and life safety educator author Einar Jensen presents an eye opening look at fire and our history of dealing with it then gives us the tools for being responsible and prepared as parents and teachers as communities and fire service professionals and as homeowners in the wildland urban interface If we don't change our understanding of fire our rules of engagement or our cultural values we should expect more tragedies and be willing to pay for them in ever increasing volumes of dollars blood sweat and tears I'm committed to preventing these tragedies and I hope to bring more members into my prevention cadre Einar Jensen Contents 1 Fire Our Friend and Foe 2 Fundamentals of Fire Science 3 Youth Firesetting Playing with Fire Can Burn Us 4 Fire's Dark Side A Tool of Pain Destruction 5 Fire's Positive Side A Tool of Creation 6 Rules of Fire Rites of Fire 7 Sacred Fire 8 Risk Perception and Fire 9 Harmony with Fire 10 Will We Keep Burning Plus 29 Ancient Myths about the Origins of Fire and a detailed appendix with Resources for Dealing with Youth Fire Misuse Suggested Reading Online Resources Glossary and more **Breakout** Newt Gingrich, 2013-11-04 It is not between the Left and the Right but between the past and the future America is on the edge of a breakout In fact we are poised for one of the most spectacular leaps in human well being in history Pioneers of the future innovators and entrepreneurs are achieving breakthroughs in medicine transportation energy education and other fields that will make the world a dramatically different and better place Unless the prison guards of the past stop them Every American must choose a side Will you be a champion of the future or a prisoner of the past Every potential breakthrough has to get past a host of individuals and institutions whose power and comfort depend on the status quo These prison guards of the past will strangle every innovation that threatens to change the way things have always been done if we let them

Professional Journal of the United States Army, 2015 Force Multiplying Technologies for Logistics Support to Military Operations National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Force Multiplying Technologies for Logistics Support to Military Operations, 2014-12-15 The mission of the United States Army is to fight and win our nation's wars by providing prompt sustained land dominance across the full range of military operations and spectrum of conflict in support of combatant commanders Accomplishing this mission rests on the ability of the Army to equip and move its forces to the battle and sustain them while they are engaged Logistics provides the backbone for Army combat operations Without fuel ammunition rations and other supplies the Army would grind to a halt The U.S. military must be prepared to fight anywhere on the globe and in an era of coalition warfare to logistically support its allies While aircraft can move large amounts of supplies the vast majority must be carried on ocean going vessels and unloaded at ports that may be at a great distance from the battlefield As the wars in Afghanistan and Iraq

have shown the costs of conveying vast quantities of supplies is tallied not only in economic terms but also in terms of lives lost in the movement of the materiel As the ability of potential enemies to interdict movement to the battlefield and interdict movements in the battlespace increases the challenge of logistics grows even larger No matter how the nature of battle develops logistics will remain a key factor Force Multiplying Technologies for Logistics Support to Military Operations explores Army logistics in a global complex environment that includes the increasing use of antiaccess and area denial tactics and technologies by potential adversaries This report describes new technologies and systems that would reduce the demand for logistics and meet the demand at the point of need make maintenance more efficient improve inter and intratheater mobility and improve near real time in transit visibility Force Multiplying Technologies also explores options for the Army to operate with the other services and improve its support of Special Operations Forces This report provides a logistics centric research and development investment strategy and illustrative examples of how improved logistics could look in the future

Decision Making and Knowledge Decision Support Systems Anna Maria Gil-Lafuente,Constantin

Zopounidis,2014-12-01 This book presents recent advancements of research new methods and techniques applications and projects in decision making and decision support systems It explores expert systems and neural networks knowledge engineering and management fuzzy sets and systems and computational methods for optimization data analysis and decision making It presents applications in Economics Finance Management and Engineering The book undertakes to stimulate scientific exchange ideas and experiences in the field of decision making in Economy and Management Researchers and practitioners alike will benefit from this book when they are dealing with imprecision vagueness and uncertainty in the context of decision making

Vibrio ecology, pathogenesis and evolution Rita R Colwell,Daniela Ceccarelli,2014-10-24

Vibrios are Gram negative bacilli that occur naturally in marine estuarine and freshwater systems Some species include human and animal pathogens capable of causing gastroenteritis wound infections cholera and fatal septicemia Over the past decades cutting edge research on Vibrio genomics has promoted a tremendous advance in our knowledge of these pathogens Significant developments include the discovery of emerging epidemic clones tracking the spread of new strain variants and an intensified appreciation of the role of mobile genetic elements in antibiotic resistance spread as well as pathogenesis Furthermore improved understanding of the interaction of Vibrios with a variety of living organisms in the aquatic environment has documented the significant role of environmental reservoirs in their seasonal cycle favoring persistence of the pathogen during inter epidemic periods and enhancing disease transmission This Research Topic is dedicated to our current understanding in these areas and will bring together leading experts in the field to provide a deep overview of Vibrios ecology and evolution and will suggest the pathway of future research in this field

Federal Register ,2013-09

Bulk Collection of Signals Intelligence National Research Council,Division on Engineering and Physical

Sciences,Computer Science and Telecommunications Board,Committee on Responding to Section 5(d) of Presidential Policy

Directive 28: The Feasibility of Software to Provide Alternatives to Bulk Signals Intelligence Collection,2015-03-24 The Bulk Collection of Signals Intelligence Technical Options study is a result of an activity called for in Presidential Policy Directive 28 PPD 28 issued by President Obama in January 2014 to evaluate U S signals intelligence practices The directive instructed the Office of the Director of National Intelligence ODNI to produce a report within one year assessing the feasibility of creating software that would allow the intelligence community more easily to conduct targeted information acquisition rather than bulk collection ODNI asked the National Research Council NRC the operating arm of the National Academy of Sciences and National Academy of Engineering to conduct a study which began in June 2014 to assist in preparing a response to the President Over the ensuing months a committee of experts appointed by the Research Council produced the report

United States Department of State Treaties in Force; A List of Treaties and Other International Agreements of the United States in Force on January 1, 2018 , Military Review ,2015 Native Games Chris Hallinan,Barry Judd,2013-07-19 Research on Indigenous participation in sport offers many opportunities to better understand the political issues of equality empowerment self determination and protection of culture and identity This volume compares and conceptualises the sociological significance of Indigenous sports in different international contexts Where Have All the Democrats Gone? Ruy Teixeira,John B. Judis,2023-11-07 A Wall Street Journal Best Political Book of 2023 A much needed wake up call for the Democrats which reveals how the party has lost sight of its core principles and endangered its political future from the authors of one of the most influential political books of the 21st century The New York Times For decades American politics has been plagued by a breakdown between the Democratic and Republican parties in which victory has inevitably led to defeat and vice versa Both parties have lost sight of the people at the center of the American electorate leading to polarization and paralysis In Where Have All the Democrats Gone John B Judis and Ruy Teixeira reveal the tectonic changes shaping the country s current political landscape that both pundits and political scientists have missed The Democratic Party once the preserve of small towns as well as big cities and of the industrial working class and the newly immigrated has abandoned and even actively alienated many of these voters In this clarion call and essential argument for common sense and common ground Judis and Teixeira reveal the transformation of American politics and provide a razor sharp critique of where the Democrats have gone awry and how they can avoid political disaster in the days ahead

Outsider Scientists Oren Harman,Michael R. Dietrich,2013-12-11 Outsider Scientists describes the transformative role played by outsiders in the growth of the modern life sciences Biology which occupies a special place between the exact and human sciences has historically attracted many thinkers whose primary training was in other fields mathematics physics chemistry linguistics philosophy history anthropology engineering and even literature These outsiders brought with them ideas and tools that were foreign to biology but which when applied to biological problems helped to bring about dramatic and often surprising breakthroughs This volume brings together eighteen thought provoking biographical essays of some of

the most remarkable outsiders of the modern era each written by an authority in the respective field From Noam Chomsky using linguistics to answer questions about brain architecture to Erwin Schrödinger contemplating DNA as a physicist would to Drew Endy tinkering with Biobricks to create new forms of synthetic life the outsiders featured here make clear just how much there is to gain from disrespecting conventional boundaries Innovation it turns out often relies on importing new ideas from other fields Without its outsiders modern biology would hardly be recognizable

Civility in the Digital Age Andrea Weckerle, 2013-02-13 Re-civilize Life Online PROVEN Conflict Management and Prevention for Social Media and the Web Ever seem like the Web is just one big screaming match Ever feel like you're refereeing a worldwide tantrum on YOUR social media sites blogs and online forums That's not good for your goals or your sanity Stop Now Step back Take a breath And solve the problem Thought you couldn't You can there are proven best practices for getting people to be civil online Even when they disagree Even if they're complaining You can avoid misunderstandings that lead to flame wars and promote constructive conversation amongst those with strongly held views And finally you can handle the people that just can't be civilized Today these skills are flat out imperative Everyone who leads curates manages or participates in online communities needs them Andrea Weckerle hasn't just compiled them she's created a 30 Day Action Plan for restoring civility to your corner of the digital world This plan works and not one moment too soon Master the foundational skills you need to resolve and prevent conflict online Understand the dynamics of each online conflict from procedural disputes to online lynch mobs Stay cool and effectively manage conflict in even the highest pressure online environments Differentiate between what people say and what they really want Create a positive online footprint or start cleaning up a negative image Recognize online troublemakers and strategize ways to handle them Manage your own anger and when necessary express it online safely and productively Strategically manage others' online hostility and frustration Limit risks to your organization's online reputation due to actions it can't control Draft and implement corporate social media policies that actually work

Making Sense of Ballistic Missile Defense National Research Council, Division on Engineering and Physical Sciences, Committee on an Assessment of Concepts and Systems for U.S. Boost-Phase Missile Defense in Comparison to Other Alternatives, 2013-01-28 The Committee on an Assessment of Concepts and Systems for U.S. Boost Phase Missile Defense in Comparison to Other Alternatives set forth to provide an assessment of the feasibility practicality and affordability of U.S. boost phase missile defense compared with that of the U.S. non boost missile defense when countering short medium and intermediate range ballistic missile threats from rogue states to deployed forces of the United States and its allies and defending the territory of the United States against limited ballistic missile attack To provide a context for this analysis of present and proposed U.S. boost phase and non boost missile defense concepts and systems the committee considered the following to be the missions for ballistic missile defense BMD protecting of the U.S. homeland against nuclear weapons and other weapons of mass destruction WMD or conventional ballistic missile attacks protection of U.S. forces including military

bases logistics command and control facilities and deployed forces including military bases logistics and command and control facilities They also considered deployed forces themselves in theaters of operation against ballistic missile attacks armed with WMD or conventional munitions and protection of U S allies partners and host nations against ballistic missile delivered WMD and conventional weapons Consistent with U S policy and the congressional tasking the committee conducted its analysis on the basis that it is not a mission of U S BMD systems to defend against large scale deliberate nuclear attacks by Russia or China Making Sense of Ballistic Missile Defense An Assessment of Concepts and Systems for U S Boost Phase Missile Defense in Comparison to Other Alternatives suggests that great care should be taken by the U S in ensuring that negotiations on space agreements not adversely impact missile defense effectiveness This report also explains in further detail the findings of the committee makes recommendations and sets guidelines for the future of ballistic missile defense research

Information Technology in Health Science Education E. de Land, 2013-11-11 This first volume is but an introduction to the growing use of computer based systems in health science education It is unlikely that the intellectual or applied system constructs herein are either exhaustive of the field or immutable growth is inevitable For one thing the field is still fractured and loosely organized which is an inevitable description of an adolescent science in a rich mine of ideas There is emerging however an organizing concept A short look into the future indicates that educational system design will be dominated by a concept which for want of a better term we may call an information system Actually this term derives from an early New York World s Fair exhibition designed by Charles Eames entitled the Informational Machine in which the designer illustrated once again his insight into the future by showing how in a fundamental manner the digital computer promised to affect and to change our lives and this change is by no means completed Even during the publication of this volume the basic sciences requisite to the development of an information machine have evolved significantly The three intellectual areas to watch are developments in artificial intelligence graphics and man machine interaction and basic component and computer system design

The John Zink Hamworthy Combustion Handbook, Second Edition Charles E. Baukal, Jr., 2013-08-23 Despite the length of time it has been around its importance and vast amounts of research combustion is still far from being completely understood Issues regarding the environment cost and fuel consumption add further complexity particularly in the process and power generation industries Dedicated to advancing the art and science of industrial combustion The John Zink Hamworthy Combustion Handbook Second Edition Volume 3 Applications offers comprehensive up to date coverage of equipment used in the process and power generation industries Under the leadership of Charles E Baukal Jr top engineers and technologists from John Zink Hamworthy Combustion examine industry applications such as process burners boiler burners process flares thermal oxidizers and vapor control This volume builds on the concepts covered in the first two volumes and shows how they are used in combustion applications The book also features a wealth of color illustrations photographs and tables throughout What s New in This Edition Expanded to three volumes with Volume 3

focusing on important industry applications Extensive updates and revisions throughout reflecting new standards energy sources processes and conservation concerns Expanded coverage of flares and new coverage of biogas flares and flare gas recovery Information on vapor combustors Discussion of pollution control equipment Expanded coverage of commercial and utility boiler burners Chapters on process and air heaters More material on thermal oxidizers A new chapter on marine and offshore applications The third of three volumes in the new expanded edition of the bestselling handbook this volume helps you broaden your knowledge of industrial combustion applications to better meet the challenges of this field For the other volumes in the set see The John Zink Hamworthy Combustion Handbook Second Edition Three Volume Set **Electronic Properties of Materials** H. Thayne Johnson, 2013-11-27 HIS FIRST EDITION OF Electronic Properties of Force Materials Laboratory where Air Force respon T Materials A Guide to the Literature initiates a sibility for these contracts has resided Mr John W plan for making available the indexing work of the Atwood is Project Manager at Hughes Aircraft Electronic Properties Information Center Since the Company inception of EPIC in June 1961 a basic objective has Professional members of EPIC are Charles L M been to use techniques and procedures that would Blocher Donald L Grigsby Dana H Johnson allow maximum distribution and use of EPIC output Thomas J Lyndon John T Milek Meta S Neu Accordingly data processing and reproduction tech berger and Emil Schafer All have ably contributed niques were established to reproduce and distribute to this work Mr Johnson and Mrs Neuberger have easily and economically a few copies of what was been primarily responsible for the indexing effort then a card index Mr Lyndon has supervised the classical library pro As the program advanced it became apparent that cedures and the clerical effort Mr Blocher and Mr a few copies of the index were not enough The index Grigsby have controlled the indexing vocabulary the should be available to all instead of just a select few cross references and the data processing input and However this would have meant so many copies that Mr Schafer has prepared the very excellent glossary the cost would have drained funds from the program with the assistance of Mr Milek

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