



basic education

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GRADE 12

PHYSICAL SCIENCES: CHEMISTRY (P2)

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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

Heretic's Guide To Management Paul

Culmsee, 2016-07-07 Management techniques such as strategic planning project management or operational budgeting aim to reduce ambiguity and provide clarity So it is one of the great ironies of modern corporate life that these techniques often end up doing the opposite increasing ambiguity rather than reducing it It is easy enough to understand why organizations are complex entities and it is unreasonable to expect management models such as those that fit neatly into a 2 2 matrix or a predetermined checklist to work in the real world Indeed expecting them to work as advertised is akin to colouring a paint by numbers Mona Lisa with the expectation of recreating Da Vinci s masterpiece Ambiguity has not been tamed reality will still impose itself no matter how alluring the model is Unfortunately most of us have a deep aversion to situations that involve

even a hint of ambiguity Recent research in neuroscience has revealed the reason for this ambiguity is processed in the parts of the brain which regulate our emotional responses As a result many people associate ambiguity with feelings of anxiety When kids feel anxious they turn to transitional objects such as teddy bears or security blankets providing them with a sense of stability when situations or events seem overwhelming We contend that as grown ups we don t actually stop using teddy bears they take a different form Backed by research we illustrate that management models fads and frameworks are akin to teddy bears They provide the same sense of comfort and certainty to corporate managers and minions as real teddies do to distressed kids This is not a problem in many cases Children usually outgrow their need for a teddy unless if development is disrupted or arrested in some way If this happens the transitional object can become a fetish an object that is held on to with a pathological intensity simply for the comfort that it offers in the face of ambiguity The corporate reliance on simplistic solutions for the complex challenges faced is akin to little Johnny believing that everything will be OK provided he clings on to Teddy Ambiguity is a primal force that drives much of our behaviour It is typically viewed negatively something to be avoided or to be controlled The truth however is that it is a force that can be used in positive ways too The Force that gave the Dark Side their power in the Star Wars movies was harnessed by the Jedi in positive ways Similarly this new management book shows how ambiguous situations so common in the corporate world are processed by the brain and the behaviours that often arise as a consequence More importantly though it shows you how to harness that ambiguity to achieve outstanding results

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

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

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

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

On Mars Edward Clinton Ezell,Linda Neuman Ezell,2013-02-19 Although it was only designed for a ninety day surface mission the Viking 1 lander ultimately transmitted science messages to Earth for seven years This authoritative history chronicles the remarkable achievements of the Viking program during its first three decades Commissioned by NASA it recounts the events surrounding the first planetary landing on Earth s closest neighbor and the first on site search for evidence of extraterrestrial life It also portrays a human drama in which thousands of professionals from government industry and academia joined together to accomplish the seemingly impossible This history begins with a survey of the qualities that make the surface and atmosphere of Mars prime targets for scientific investigation A retrospective of NASA s Mariner program follows detailing the series of robotic interplanetary probes that led to the initiation of the Viking program in 1968 The authors trace the ensuing technological developments including the first lander vehicles and orbiter They also profile the cooperation of managerial technical and scientific teams during the mission s data gathering and analysis phases The final chapters outline the scientific results of the Viking investigations examine some of the unresolved questions and consider possible future explorations Dozens of photos taken by Viking cameras illuminate the text

Tunnel Visions Michael Riordan,Lilian Hoddeson,Arienne W. Kolb,2015-11-20 A detailed and engaging account of the development of the superconducting supercollider one of the largest scientific undertakings in the United States Journal of American History Starting in the 1950s US physicists dominated the search for elementary particles aided by the association of this research with national security they held this position for decades In an effort to maintain their hegemony and track down the elusive Higgs boson they convinced President Reagan and Congress to support construction of the multibillion dollar Superconducting Super Collider project in Texas the largest basic science project ever attempted But after the Cold War ended and the estimated SSC cost surpassed ten billion dollars Congress terminated the project in October 1993 Drawing on extensive archival research contemporaneous press accounts and over one hundred interviews with scientists engineers government officials and others involved Tunnel Visions tells the riveting story of the aborted SSC project The authors

examine the complex interrelated causes for its demise including problems of large project management continuing cost overruns and lack of foreign contributions In doing so they ask whether Big Science has become too large and expensive including whether academic scientists and their government overseers can effectively manage such an enormous undertaking Focusing on the scientific technical and political conflicts that led to delays ever rising costs and eventually the SSC s cancelation by Congress Tunnel Visions is a true techno thriller Burton Richter winner of the Nobel Prize in Physics Most good science stories are tales of discovery and success but failure can be just as riveting Here two historians and an archivist describe the greatest particle physics experiment that never was Scientific American **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 Transportation Research Record ,1982 **Title Announcement Bulletin** ,1956 **Shaky**

Foundations Mark Solovey,2013-02-08 Numerous popular and scholarly accounts have exposed the deep impact of patrons on the production of scientific knowledge and its applications Shaky Foundations provides the first extensive examination of a new patronage system for the social sciences that emerged in the early Cold War years and took more definite shape during the 1950s and early 1960s a period of enormous expansion in American social science By focusing on the military the Ford Foundation and the National Science Foundation Mark Solovey shows how this patronage system presented social scientists and other interested parties including natural scientists and politicians with new opportunities to work out the scientific identity social implications and public policy uses of academic social research Solovey also examines significant criticisms of the new patronage system which contributed to widespread efforts to rethink and reshape the politics patronage social science nexus starting in the mid 1960s Based on extensive archival research Shaky Foundations addresses fundamental questions about the intellectual foundations of the social sciences their relationships with the natural sciences

and the humanities and the political and ideological import of academic social inquiry Who's who Among Students in American Universities and Colleges Henry Pettus Randall,1978 CIS Annual ,1977 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 \mathbb{F} 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 \mathbb{F} is either \mathbb{Q} or of positive characteristic In characteristic zero a fairly general criterion is exhibited

Computational Propaganda Samuel C. Woolley, Philip N. Howard,2019 Social media platforms do not just circulate political ideas they support manipulative disinformation campaigns While some of these disinformation campaigns are carried out directly by individuals most are waged by software commonly known as bots programmed to perform simple repetitive robotic tasks Some social media bots collect and distribute legitimate information while others communicate with and harass people manipulate trending algorithms and inundate systems with spam Campaigns made up of bots fake accounts and trolls can be coordinated by one person or a small group of people to give the illusion of large scale consensus Some political regimes use political bots to silence opponents and to push official state messaging to sway the vote during elections and to defame critics human rights defenders civil society groups and journalists This book argues that such automation and platform manipulation amounts to a new political communications mechanism that Samuel Woolley and Philip N Howard call computational propaganda This differs from older styles of propaganda in that it uses algorithms automation and human curation to purposefully distribute misleading information over social media networks while it actively learns from and mimicks real people so as to manipulate public opinion across a diverse range of platforms and device networks This book includes cases of computational propaganda from nine countries both democratic and authoritarian and four continents North and South America Europe and Asia covering propaganda efforts over a wide array of social media platforms and usage in different types of political processes elections referenda and during political crises

Complexity, Security and Civil Society in East Asia Peter Hayes, Kiho Yi,2015-06-22 Complexity Security and Civil Society in East Asia offers the latest understanding of complex global problems in the region including nuclear weapons urban insecurity energy and climate change Detailed case studies of China North and South Korea and Japan demonstrate the importance of civil society and civic diplomacy in reaching shared solutions to these problems in East Asia and beyond Each chapter describes regional civil society initiatives that tackle complex challenges to East Asia's security In doing so the book identifies key pressure points at which civil society can push for constructive changes especially ones that reduce the North Korean threat to its neighbors Unusually this book is both theoretical and practical Complexity Security and Civil

Society in East Asia presents strategies that can be led by civil society and negotiated by its diplomats to realize peace security and sustainability worldwide It shows that networked civic diplomacy offers solutions to these urgent issues that official complex diplomacy cannot By providing a new theoretical framework based on empirical observation this volume is a must read for diplomats scholars students journalists activists and individual readers seeking insight into how to solve the crucial issues of our time Host Bibliographic Record for Boundwith Item Barcode 30112050443578 and Others ,2013

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web from the towering peaks of the southern andes to the plunging depths of lago argentino from the beryl blue of light of perito moreno to the vibrant hues of a sunset over cerro torre from the crisp mountain air to the smells of wood smoke and roasting patagonian lamb this is a trip that will awaken your senses and stir your imagination leave

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