



**education**

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Education  
PROVINCE OF KWAZULU-NATAL

**PHYSICAL SCIENCES: (PHYSICS) P1**

**PREPARATORY EXAMINATION**

**SEPTEMBER 2017**

**NATIONAL  
SENIOR CERTIFICATE**

**GRADE 12**

**MARKS: 150**

**TIME : 3 hours**

**This question paper consists of 15 pages and a 3-page data sheet.**

# Physical Science Paper 1 September 2012 Memorandum

**Thomas Lund**



## **Physical Science Paper 1 September 2012 Memorandum:**

10 Years UPSC CAPF Assistant Commandant (2021 - 2012) Solved Papers I & II with 5 Practice Sets Disha

Experts,2021-09-01      **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      **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 Neurotrauma Nadine Abelson-Mitchell,2013-02-26 Neurotrauma Managing Patients with Head Injuries is a comprehensive holistic evidence based approach to the primary secondary and tertiary care of a person with neurotrauma Using a patient centred needs approach to enhance the quality of care of head injured patients family and carers this multidisciplinary book enables the reader to apply the knowledge skills and attitudes learned to the practice of neurotrauma in all settings It explores Anatomy and physiology of the brain Pharmacology for neurotrauma patients Assessment of the patient with neurotrauma Management of neurotrauma in a range of settings including at the scene in the emergency department and at the hospital Neuro rehabilitation Community care Nursing management of the patient This practical resource includes activities exercises and ethical and legal considerations throughout making it ideal reading for all staff working in neuroscience emergency critical and rehabilitation settings

*Spacecraft that Explored the Inner Planets Venus and Mercury* Thomas Lund,2023-07-03 A series of increasingly capable spacecraft were sent to explore the inner planets Venus and Mercury The history of that planetary exploration is traced in this book along with the evolution of sophisticated spacecraft that unveiled long sought secrets of the planets The spacecraft were ingenious and reflected the best efforts of talented people working with the available technology of the day Additionally this book showcases engineering involved in those capable machines A consecutive series of 34 planetary spacecraft which span the time period 1961 to 2021 are described This includes the unsuccessful missions of several early spacecraft that paved the way for a better understanding of Venus hostile environments This book will describe many successful spacecraft sent to Venus by the Soviet Union and many successful spacecraft sent to Venus and to Mercury by the United States The recent exploration of Venus by the European Space Agency s Venus Express and the Japanese spacecraft Akatsuki can also be found in this book The author draws on over 50 years of experience on aircraft and spacecraft systems to tell the story of these planetary spacecraft The spacecraft experience includes being the technical lead for the landing radars on the Surveyor and Apollo lunar landers as well as providing analyses for the rendezvous radar for the Space Shuttle Practical engineering experience is augmented by Master s degrees in electrical engineering physics and business administration

**Building a Ruin** Yakov Feygin,2024-06-11 Yakov Feygin argues that Soviet decline owes much to internal tensions over economic reform Focused on socioeconomic competition with the West Khrushchev and his successors sought to build a consumer society but had only Stalinist institutions of mass mobilization to work with resulting in unresolvable contradiction and eventual sclerosis This Changes Everything Naomi Klein,2014-09-16 The most important book yet from the author of the international bestseller *The Shock Doctrine* a brilliant explanation of why the climate crisis challenges us to abandon the core free market ideology of our time restructure the global economy and remake our political systems In short either we

embrace radical change ourselves or radical changes will be visited upon our physical world The status quo is no longer an option In *This Changes Everything* Naomi Klein argues that climate change isn't just another issue to be neatly filed between taxes and health care It's an alarm that calls us to fix an economic system that is already failing us in many ways Klein meticulously builds the case for how massively reducing our greenhouse emissions is our best chance to simultaneously reduce gaping inequalities reimagine our broken democracies and rebuild our gutted local economies She exposes the ideological desperation of the climate change deniers the messianic delusions of the would-be geoengineers and the tragic defeatism of too many mainstream green initiatives And she demonstrates precisely why the market has not and cannot fix the climate crisis but will instead make things worse with ever more extreme and ecologically damaging extraction methods accompanied by rampant disaster capitalism Klein argues that the changes to our relationship with nature and one another that are required to respond to the climate crisis humanely should not be viewed as grim penance but rather as a kind of gift a catalyst to transform broken economic and cultural priorities and to heal long festering historical wounds And she documents the inspiring movements that have already begun this process communities that are not just refusing to be sites of further fossil fuel extraction but are building the next regeneration-based economies right now Can we pull off these changes in time Nothing is certain Nothing except that climate change changes everything And for a very brief time the nature of that change is still up to us

Overcoming Barriers to Deployment of Plug-in Electric Vehicles National Research Council, Transportation Research Board, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Overcoming Barriers to Electric-Vehicle Deployment, 2015-06-26 In the past few years interest in plug-in electric vehicles (PEVs) has grown Advances in battery and other technologies new federal standards for carbon dioxide emissions and fuel economy state zero emission vehicle requirements and the current administration's goal of putting millions of alternative fuel vehicles on the road have all highlighted PEVs as a transportation alternative Consumers are also beginning to recognize the advantages of PEVs over conventional vehicles such as lower operating costs smoother operation and better acceleration the ability to fuel up at home and zero tailpipe emissions when the vehicle operates solely on its battery There are however barriers to PEV deployment including the vehicle cost the short all-electric driving range the long battery charging time uncertainties about battery life the few choices of vehicle models and the need for a charging infrastructure to support PEVs What should industry do to improve the performance of PEVs and make them more attractive to consumers At the request of Congress *Overcoming Barriers to Deployment of Plug-in Electric Vehicles* identifies barriers to the introduction of electric vehicles and recommends ways to mitigate these barriers This report examines the characteristics and capabilities of electric vehicle technologies such as cost performance range safety and durability and assesses how these factors might create barriers to widespread deployment *Overcoming Barriers to Deployment of Plug-in Electric Vehicles* provides an overview of the current status of PEVs and makes recommendations to spur the industry and

increase the attractiveness of this promising technology for consumers Through consideration of consumer behaviors tax incentives business models incentive programs and infrastructure needs this book studies the state of the industry and makes recommendations to further its development and acceptance *Indigenous Peoples' Governance of Land and Protected Territories in the Arctic* Thora Martina Herrmann, Thibault Martin, 2015-12-22 This book addresses critical questions and analyses key issues regarding Indigenous Aboriginal Peoples and governance of land and protected areas in the Arctic It brings together contributions from scientists indigenous and non indigenous researchers local leaders and members of the policy community that document Indigenous Aboriginal approaches to governance of land and protected areas at the local regional and international level explore new territorial governance models that are emerging as part of the Indigenous Aboriginal governance within Arctic States provinces territories and regions analyse the recognition or lack thereof concerning indigenous rights to self determination in the Arctic and examine how traditional decision making arrangements and practices can be linked with governments in the process of good governance The book highlights essential lessons learned success stories and remaining issues all of which are useful to address issues of Arctic governance of land and protected areas today and which could also be relevant for future governance arrangements The Impact of the Geological Sciences on Society Marion E. Bickford, 2013-09-24 This volume addresses the impact of the geological sciences from 1963 2013 in such areas as geologic hazards mineral resources energy resources water resources soil resources geology and health geologic education and the informing of general public policy The chapters focus on how earth science informs and benefits society Provided by publisher *GWAI-87 11th German Workshop on Artificial Intelligence* Katharina Morik, 2012-12-06 *Using Film to Understand Childhood and Practice* Sue Aitken, 2018-02-08 Using Film to Understand Childhood and Practice is an innovative and lively text which allows complex and challenging issues within childhood studies to be explored using the medium of filmed drama By utilising popular culture this book provides accessible narratives to students and lecturers needing to engage with complex theoretical ideas In exposing theories to tangible situations often from more than one perspective in films readers are helped to identify and recognise how theories about children and childhood can be applied Each chapter uses a specific film to provide the basis for discussion in order to explore and analyse key concepts within childhood studies which include identity social construction families political and biological narratives children's rights and participation A range of international films are used including Charlie and the Chocolate Factory Rabbit Proof Fence The Hunger Games and The Red Balloon First introducing the theoretical perspective to be discussed chapters also include a contextual explanation of the film and list the specific scenes that will be used to guide students through Concluding with discussion questions students are asked to consider how the theories discussed might be translated in to their own experiences of children childhood and practice Not only supporting understanding of core principles and key ideas across any childhood studies degree this book supports students throughout their university career and beyond by engaging

with the journey of becoming a graduate as well as discussion of workplace issues and concepts after graduation **OECD Digital Economy Outlook 2024 (Volume 2) Strengthening Connectivity, Innovation and Trust** OECD,2024-11-19

Rapid technological changes characterise the most recent phase of digital transformation bringing opportunities and risks for the economy and society Volume 2 of the OECD Digital Economy Outlook 2024 examines new directions in digital priorities policies and governance across countries It further analyses developments in the foundations that support digital transformation drive digital innovation and foster trust in the digital age Toward this end Volume 2 assesses access and connectivity trends and the skills needed to thrive in a digital economy and society It also explores how to push out the digital technology frontier by harnessing the untapped potential of women Moreover it considers how technological innovations can help reach net zero targets and contribute to protecting the planet Finally Volume 2 examines digital security developments and presents new trends in media consumption and trust attitudes toward privacy and control over personal data and insights into how exposure to additional context influences the ability of individuals to identify the veracity of information on line A Statistical Annex completes the volume *Choose Your Medicine* Lewis A. Grossman,2021

Throughout American history lawmakers have limited the range of treatments available to patients often with the backing of the medical establishment The country s history is also however brimming with social movements that have condemned such restrictions as violations of fundamental American liberties This fierce conflict is one of the defining features of the social history of medicine in the United States In *Choose Your Medicine* Lewis A Grossman presents a compelling look at how persistent but evolving notions of a right to therapeutic choice have affected American health policy law and regulation from the Revolution through the Trump Era **Water** Giulio Boccaletti,2022-10-18 Spanning millennia and continents a revealing history that tackles the most important story of our time our relationship with water in a world of looming scarcity Kelly McEvers NPR Host Far more than a biography of its nominal subject The book stands as a compelling history of civilization itself The Wall Street Journal Book Review Writing with authority and brio Giulio Boc caletti honorary research associate at the Smith School of Enterprise and the Environment Univer sity of Oxford shrewdly combines environmental and social history beginning with the earliest civ ilizations of sedentary farmers on the banks of the Nile the Tigris and the Euphrates Rivers Even as he describes how these societies were made possible by sea level changes from the last glacial melt he incisively examines how this type of farming led to irrigation and multiple cropping which in turn led to a population explosion and labor specialization We see with clarity how irrigation s structure informed social structure inventions such as the calendar sprung from agricultural necessity how in ancient Greece the communal ownership of wells laid the groundwork for democracy how the Greek and Roman experiences with water security resulted in systems of taxation and how the modern world as we know it began with a legal framework for the development of water infrastructure Extraordinary for its monumental scope and piercing insightfulness *Water A Biography* richly enlarges our understanding of our relationship to

and fundamental reliance on the most elemental substance on earth      **Fires in GunaiKurnai Country** Jessie Buettel, Bruno David, Russell Mullett, Joanna Fresløv, Katherine Szabó, GunaiKurnai Land and Waters Aboriginal Corporation, 2023-06-08 Anthropogenic climate change is becoming a reality and in Australia this means longer more intense wildfire seasons over a wider area The GunaiKurnai people saw much of their Country decimated during Black Summer 2019 2020 prompting questions about both the management of Country and its heritage resources moving forward      **Alan Turing's Electronic Brain** others, 2012-05-24 The mathematical genius Alan Turing now well known for his crucial wartime role in breaking the ENIGMA code was the first to conceive of the fundamental principle of the modern computer the idea of controlling a computing machine's operations by means of a program of coded instructions stored in the machine's memory In 1945 Turing drew up his revolutionary design for an electronic computing machine his Automatic Computing Engine ACE A pilot model of the ACE ran its first program in 1950 and the production version the DEUCE went on to become a cornerstone of the fledgling British computer industry The first personal computer was based on Turing's ACE Alan Turing's Automatic Computing Engine describes Turing's struggle to build the modern computer The first detailed history of Turing's contributions to computer science this text is essential reading for anyone interested in the history of the computer and the history of mathematics It contains first hand accounts by Turing and by the pioneers of computing who worked with him As well as relating the story of the invention of the computer the book clearly describes the hardware and software of the ACE including the very first computer programs The book is intended to be accessible to everyone with an interest in computing and contains numerous diagrams and illustrations as well as original photographs The book contains chapters describing Turing's path breaking research in the fields of Artificial Intelligence AI and Artificial Life A Life The book has an extensive system of hyperlinks to The Turing Archive for the History of Computing an on line library of digital facsimiles of typewritten documents by Turing and the other scientists who pioneered the electronic computer      *Geology and Geologic Hazards of the Blue Ridge* Arthur J. Merschat, Mark W. Carter, 2024-05-16 The three field guides in this volume explore facets of the geology of western North Carolina USA The trip to Buck Creek and Chunky Gal Mountain examines high temperature mafic and ultramafic rocks interpreted to be part of a dismembered ophiolite thrust onto Laurentian crust during the Taconic orogeny The second trip traverses rugged terrain along the Blue Ridge Escarpment from near the South Carolina state line to Hickory Nut Gorge just southeast of Asheville to examine rockfalls rockslides debris flows and debris slides triggered by extreme rainfall events The trip to Sparta North Carolina highlights the results of interdisciplinary studies among collaborators following the 2020 Mw 5.1 earthquake      Arming the Warship Iver P. Cooper, 2024-11-04 In the 16th century warships engaged at close range sometimes with yards touching and small arms fire and hand to hand combat were at least as important as the great guns As time went on the big guns became more decisive and increased in destructive power range and accuracy This book explores how naval armament armor ballistics and gunnery evolved from the 16th to 20th centuries



from a scientific and technological perspective It examines the functional aspects the guns and their distribution on warships the propellants the projectiles and so forth and examines the development of each **Federal Register** ,2012-06

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