



education

Department of
Education
FREE STATE PROVINCE

PREPARATORY EXAMINATION

GRADE 12

PHYSICAL SCIENCES P2
(CHEMISTRY)

SEPTEMBER 2024

MARKS: 150

TIME: 3 HOURS

This question paper consists of 12 pages and 4 data sheets.

Full Question Paper
Discussion

Memorandum

100%

Physical Science Pape2 Fs September 2014 Memo

B Lingard



Physical Science Pape2 Fs September 2014 Memo:

Teaching at Its Best Linda B. Nilson, 2016-07-18 The classic teaching toolbox updated with new research and ideas Teaching at Its Best is the bestselling research based toolbox for college instructors at any level in any higher education setting Packed with practical guidance proven techniques and expert perspectives this book helps instructors improve student learning both face to face and online This new fourth edition features five new chapters on building critical thinking into course design creating a welcoming classroom environment helping students learn how to learn giving and receiving feedback and teaching in multiple modes along with the latest research and new questions to facilitate faculty discussion Topics include new coverage of the flipped classroom cutting edge technologies self regulated learning the mental processes involved in learning and memory and more in the accessible format and easy to understand style that has made this book a much valued resource among college faculty Good instructors are always looking for ways to improve student learning With college classrooms becoming increasingly varied by age ability and experience the need for fresh ideas and techniques has never been greater This book provides a wealth of research backed practices that apply across the board Teach students practical real world problem solving Interpret student ratings accurately Boost motivation and help students understand how they learn Explore alternative techniques formats activities and exercises Given the ever growing body of research on student learning faculty now have many more choices of effective teaching strategies than they used to have along with many more ways to achieve excellence in the classroom Teaching at Its Best is an invaluable toolbox for refreshing your approach and providing the exceptional education your students deserve

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 **This Changes Everything** Naomi Klein,2014-09-16 With strong first hand reporting and an original provocative thesis Naomi Klein returns with this book on how the climate crisis must spur transformational political change **Beyond Control** James F. Barnett Jr.,2017-03-16 Beyond Control reveals the Mississippi as a waterway of change unnaturally confined by ever larger levees and control structures During the great flood of 1973 the current scoured a hole beneath the main structure near Baton Rouge and enlarged a pre existing football field size crater That night the Mississippi River nearly changed its course for a shorter and steeper path to the sea Such a map changing reconfiguration of the country s largest river would bear national significance as well as disastrous consequences for New Orleans and towns like Morgan City at the mouth of the Atchafalaya River Since 1973 the US Army Corps of Engineers Control Complex at Old River has kept the Mississippi from jumping out of its historic channel and plunging through the Atchafalaya Basin to the Gulf of Mexico Beyond Control traces the history of this phenomenon beginning with a major channel shift around 3 000 years ago By the time European colonists began to explore the Lower Mississippi Valley a unique confluence of waterways had formed where the Red River joined the Mississippi and the Atchafalaya River flowed out into the Atchafalaya Basin A series of human alterations to this potentially volatile web of rivers starting with a bend cutoff in 1831 by Captain Henry Miller Shreve set the forces in motion for the Mississippi s move into the Atchafalaya Basin Told against the backdrop of the Lower Mississippi River s impending diversion the book s chapters chronicle historic floods rising flood crests a changing strategy for flood protection and competing interests in the management of the Old River outlet Beyond Control is both a history and a close look at an inexorable living process happening now in the twenty first century **Arctic Shipping** Frédéric Lasserre,Olivier Faury,2019-09-05 This book considers both the present state of Arctic shipping and possible future trends with reference to the various sectors of maritime transportation cruise tourism container traffic and bulk shipping Ports are analysed as tools that support the strategies of coastal states to foster the development of resource extraction enhance the attractiveness of Arctic shipping lanes and enable the control of maritime activities through coast guard deployment The aim of this book is to draw a picture of the trends of Arctic shipping How is traffic evolving in Canada s Arctic or along the Northern Sea Route Are

there significant differences between bulk and container shipping segments when considering the Arctic market How are the ports and the hinterland developing and what are the strategies behind those How is the legal framework shaping the evolution of maritime transportation The contributors to this book consider all of these questions and more as they map out the prospects for Arctic shipping and analyse in detail the development of Arctic shipping as a result of multi variable interactions This book will be key reading for industry professionals and post graduate students alike At Sea Against the Soviet Fleet Bryan H. Leese,2025-10-14 At Sea Against the Soviet Fleet is a history of the evolution of the United States Navy s Operational Intelligence culture that informs great power competition with China today At Sea Against the Soviet Fleet examines the critical transformation of naval intelligence during a pivotal era marked by the Cold War and the Vietnam conflict Bryan Leese meticulously details how U S Navy operational intelligence evolved to meet the complexities of modern naval warfare particularly in response to the increasing threats posed by the Soviet Navy Structured into four main parts this book begins by examining the Vietnam War and the institutionalization of shipboard operational intelligence or what Navy intelligence calls Opintel The book highlights the establishment of Integrated Operational Intelligence Centers as part of the RA 5C Vigilante program and the innovative strategies that emerged in air combat and targeting Leese goes on to underscore the necessity of Opintel to the U S Navy s close and distant blockade strategy in the 1960s and 1970s He delves into the decentralization of intelligence processes emphasizing the importance of adaptability and the need to prevent surprise attacks This evolution is framed within the transition to the Navy s Ocean Surveillance Information System a decentralized and responsive operational intelligence system The ongoing developments of shipboard intelligence capabilities are explored demonstrating how these advancements empowered naval commanders In the 1970s the organizations evolved as the revolutionary Opintel adaptations of the 1960s that leveraged cooperation without hierarchy became formalized Leese highlights the revolution to evolution process by introducing Opintel support to shipboard tactical decisions to integrate operational intelligence into comprehensive naval strategies Capturing the essence of this transformative period the author discusses the cultural dynamics within the Navy that fostered innovation and interdepartmental collaboration These developments not only contributed to maintaining a strategic edge over the Soviet Union but also laid the groundwork for future naval operations in the digital age Leese s work reveals the intricate interplay between technology strategy and personnel in creating an effective intelligence framework that allows the U S Navy to assert influence at sea setting conditions for sea control in conflict By blending rich archival research with firsthand accounts this book offers a nuanced understanding of how the Navy adapted to an ever changing operational landscape ultimately preserving peace while navigating the complexities of high stakes maritime conflict 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

Synthetics, Mineral Oils, and Bio-Based Lubricants

Leslie R. Rudnick,2020-01-29 Highlighting the major economic and industrial changes in the lubrication industry since the first edition Synthetics Mineral Oils and Bio Based Lubricants Chemistry and Technology Third Edition highlights the major economic and industrial changes in the lubrication industry and outlines the state of the art in each major lubricant application area Chapters cover the use of lubricant fluids growth or decline of market areas and applications potential new applications production capacities and regulatory issues including biodegradability toxicity and food production equipment lubrication The highly anticipated third edition features new and updated chapters including those on automatic and continuously variable transmission fluids fluids for food grade applications oil soluble polyalkylene glycols functional bio based lubricant base stocks farnesene derived polyolefins estolides bio based lubricants from soybean oil and trends in construction equipment lubrication Features include Contains an index of terms acronyms and analytical testing methods Presents the latest conventions for describing upgraded mineral oil base fluids Considers all the major lubrication areas engine oils industrial lubricants food grade applications greases and space age applications Includes individual chapters on lubricant applications such as environmentally friendly disk drive and magnetizable fluids for major market areas around the globe In a single unique volume Synthetics Mineral Oils and Bio Based Lubricants Chemistry and Technology Third Edition offers property and performance information of fluids theoretical and practical background to their current applications and strong indicators for global market trends that will influence the industry for years to come

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 University of Oxford shrewdly combines environmental and social history beginning with the earliest civilizations 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

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

Vaccinating Britain Gareth Millward, 2019-01-29 This electronic version has been made available under a Creative Commons BY NC ND open access license This book is available as an open access ebook under a CC BY NC ND licence *Vaccinating Britain* shows how the British public has played a central role in the development of vaccination policy since the Second World War It explores the relationship between the public and public health through five key vaccines diphtheria smallpox poliomyelitis whooping cough and measles mumps rubella MMR It reveals that while the British public has embraced vaccination as a safe effective and cost efficient form of preventative medicine demand for vaccination and trust in the authorities that provide it has ebbed and flowed according to historical circumstances It is the first book to offer a long term perspective on vaccination across different vaccine types This history provides context for students and researchers interested in present day controversies surrounding public health immunisation programmes Historians of the post war British welfare state will find valuable insight into changing public attitudes towards institutions of

government and vice versa *The Formative Years of Relativity* Hanoch Gutfreund, Jürgen Renn, 2017-09-08 First published in 1922 and based on lectures delivered in May 1921 Albert Einstein's *The Meaning of Relativity* offered an overview and explanation of the then new and controversial theory of relativity The work would go on to become a monumental classic printed in numerous editions and translations worldwide Now *The Formative Years of Relativity* introduces Einstein's masterpiece to new audiences This beautiful volume contains Einstein's insightful text accompanied by important historical materials and commentary looking at the origins and development of general relativity Hanoch Gutfreund and Jürgen Renn provide fresh original perspectives placing Einstein's achievements into a broader context for all readers In this book Gutfreund and Renn tell the rich story behind the early reception spread and consequences of Einstein's ideas during the formative years of general relativity in the late 1910s and 1920s They show that relativity's meaning changed radically throughout the nascent years of its development and they describe in detail the transformation of Einstein's work from the esoteric pursuit of one individual communicating with a handful of colleagues into the preoccupation of a growing community of physicists astronomers mathematicians and philosophers This handsome edition quotes extensively from Einstein's correspondence and reproduces historical documents such as newspaper articles and letters Inserts are featured in the main text giving concise explanations of basic concepts and short biographical notes and photographs of some of Einstein's contemporaries are included The first ever English translations of two of Einstein's popular Princeton lectures are featured at the book's end

Environmental Management Technologies Pankaj Chowdhary, Vineet Kumar, Sunil Kumar, Vishvas Hare, 2022-11-29 *Environmental Management Technologies Challenges and Opportunities* details the environmental problems posed by the various types of toxic organic and inorganic pollutants discharged from both natural and anthropogenic activities and their toxicological effects in environments humans animals and plants This book also highlights the recent advanced and innovative methods for the effective degradation and bioremediation of organic pollutants heavy metals dyes etc from the environment for sustainable development Features of the book Provides state of the art information on pollutants their sources and deleterious impacts on the environment Elucidates the recent updates on Emerging Pollutants EPs in pharmaceutical waste and personal care products Discusses the various physico chemical biological and combination treatment systems for sustainable development Details recent research findings in the area of environmental waste management and their future challenges and opportunities

Prediction Technologies for Improving Engineering Product Efficiency Lev M. Klyatis, 2023-01-03 This book is aimed at readers who need to learn the latest solutions for interconnected simulation testing and prediction technologies that improve engineering product efficiency including reliability safety quality durability maintainability life cycle costing and profit It provides a detailed analysis of technologies now being used in industries such as electronics automotive aircraft aerospace off highway farm machinery and others It includes clear examples charts and illustrations This book provides analyses of the simulation testing and prediction

approaches and methodologies with descriptive negative trends in their development The author discusses why many current methods of simulation testing and prediction are not successful and describes novel techniques and tools developed for eliminating these problems This book is a tool for engineers managers researches in industry teachers and students Lev Klyatis Hab Dr Ing ScD PhD Senior Advisor SoHaR Inc has been a professor at Moscow State Agricultural Engineering University research leader and chairman of State Enterprise TESTMASH and served on the US Technical Advisory Group for the International Electrotechnical Commission IEC the ISO IEC Joint Study Group in Safety Aspects of Risk Assessment the United Nations European Economical Commission and US USSR Trade and Economic Council He is presently a member of World Quality Council the Elmer A Sperry Board of Award SAE International G 41 Reliability Committee the Integrated Design and Manufacturing Committee and session chairman of SAE International World Congresses in Detroit since 2012 His vast experience and innovation enable him to create a new direction for the successful prediction of product efficiency during any given time including accurate simulation of real world conditions accelerated reliability and durability testing technology and reducing recalls His approach has been verified in various industries primarily automotive farm machinery aerospace and aircraft industries He has shared his new direction working as the seminar instructor and consultant to Ford DaimlerChrysler Nissan Toyota Jatco Ltd Thermo King Black an Dekker NASA Research Centers Karl Schenck and many others He holds over 30 patents worldwide and is the author of over 300 publications including 15 books [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 **Ecosystem-Based Fisheries Management** Jason S. Link, Anthony R. Marshak, 2022-01-25 By examining a suite of over 90 indicators for 9 major US fishery ecosystem jurisdictions the authors systematically track the progress the country has made towards advancing EBFM and making it an operational reality lessons which are applicable to oceans globally [Governance Feminism](#) Janet Halley, Prabha Kotiswaran, Rachel Rebouché, Hila Shamir, 2019-03-26 An interdisciplinary multifaceted look at feminist engagements with governance across the global North and global South Governance Feminism Notes from the Field brings together nineteen chapters from leading feminist scholars and activists to critically describe and assess contemporary feminist engagements with state and state like power Gathering examples from North America South America Europe Asia and the Middle East it complements and expands on the companion volume Governance Feminism An Introduction Its chapters argue that governance feminism GF is institutionally diverse and globally distributed emerging from traditional sites of state power as well as from various forms of governance and operating at the grassroots level in the private sector in civil society and in international relations The book begins by confronting the key role that crime and punishment play in GFeminist projects

Here contributors explore the ideological and political conditions under which this branch of GF became so robust and rethink the carceral turn Other chapters speak to another face of GFeminism feminists finding in mundane and seemingly unspectacular bureaucratic tools leverage to bring about change in policy and governance practices Several contributions highlight the political strategic and ethical challenges that feminists and LGBT activists must negotiate to play on the governmental field The book concludes with a focus on feminist interventions in postcolonial legal and political orders looking at new policy spaces opened up by conflict postconflict and occupation Providing a clear cross cutting critical lens through which to map developments in feminist governance around the world Governance Feminism Notes from the Field makes sense of the costs and benefits of current feminist realities to reimagine feminist futures Contributors Libby Adler Northeastern U Aziza Ahmed Northeastern U Elizabeth Bernstein Barnard College Amy J Cohen Ohio State U Karen Engle U of Texas at Austin Jacob Gersen Harvard U Leigh Goodmark U of Maryland Aeyal Gross Tel Aviv U Aya Gruber U of Colorado Boulder Janet Halley Harvard U Rema Hammami Birzeit U Palestine Vanja Hamzi U of London Isabel Cristina Jaramillo Sierra Prabha Kotiswaran King s College London Maleiha Malik King s College London Vasuki Nesiah New York U Dianne Otto Melbourne Law School Helen Reece Darren Rosenblum Pace U Jeannie Suk Gersen Harvard U Mariana Valverde U of Toronto

Government Reports Announcements & Index ,1981-11 *Dalla pirateria dei libri all'editoria predatoria* Rossana Morriello,2023-02-07 opinione diffusa che alcune delle problematiche che caratterizzano l odierna comunicazione scientifica abbiano radici recenti Non di rado si considerano questioni quali l editoria predatoria o gli episodi di violazione di etica e integrit della ricerca come conseguenza della diffusione dell editoria digitale soprattutto ad accesso aperto In realt sebbene l open access possa in certe condizioni aumentare il rischio di incorrere in comportamenti illeciti o eticamente scorretti rendere accessibili liberamente i risultati della ricerca accresce la visibilit e la circolazione delle pubblicazioni Non solo si agevola anche il rilevamento dei casi di distorsione che altrimenti sarebbero pi difficili da individuare Fenomeni quali le riviste e le conferenze predatorie i paper mills che fabbricano articoli scientifici gli zombie papers che risorgono dalle ceneri della malascienza e le molte altre criticit relative all etica e all integrit della ricerca scientifica sono in aumento ma al contempo sono divenute pi evidenti grazie alle potenzialit delle tecnologie Il libro traccia e descrive le pratiche dannose nella comunicazione scientifica che oggi ne minano la credibilit ma getta anche lo sguardo indietro per mettere in luce le linee di continuit con quanto accaduto nei secoli passati L intreccio tra le vicende di storia della stampa le sollecitazioni della pirateria libraria e il dibattito sulla libert intellettuale che condusse alla nascita della prima legge sul copyright e infervor gli illuministi torna ad essere cruciale ai nostri giorni configurandosi come un probabile stato di transizione verso un nuovo paradigma

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