

G11 PHYSICAL SCIENCE PAPER 1 REVISION

QUESTION 2 (Start on a new page.)

Three forces, **P**, **Q** and **R**, of magnitudes 800N, 200N and 600N respectively, act on a point **O** in the directions shown in the diagram below.

The forces are NOT drawn to scale.



Determine the magnitude and direction of the resultant force by
CALCULATION

(8)
[8]

QUESTION 3 (Start on a new page.)

A constant force, **F**, pulls a 35kg block at a constant speed over a rough horizontal surface, **AB**, as shown in the diagram below. The coefficient of kinetic friction (μ_k) between the block and the surface is 0,4.



3.1 Draw a labelled free-body diagram showing ALL the forces acting on the block.

(4)

3.2 State Newton's first law of motion in words.

(2)

Calculate the magnitude of the:

3.3 Force **F**

(6)

Physical Science Paper 1 June 2012

Raffaela Di Napoli



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Successful Adaptation to Climate Change Susanne Moser, Maxwell Boykoff, 2013-07-18 What does successful adaptation look like This is a question we are frequently asked by planners policy makers and other professionals charged with the task of developing and implementing adaptation strategies While adaptation is increasingly recognized as an important climate risk management strategy and on the ground adaptation planning activity is becoming more common place there is no clear guidance as to what success would look like what to aim for and how to judge progress This edited volume makes significant progress toward unpacking the question of successful adaptation offering both scientifically informed and practice relevant answers from various sectors and regions of the world It brings together 18 chapters from leading experts within the field to present careful analyses of different cases and situations questioning throughout commonly avowed truisms and unspoken assumptions that have pervaded climate adaptation science and practice to date This book offers not one answer but demonstrates how the question of success in important ways is normative and context specific It identifies the various dimensions of success such as economic political institutional ecological and social explores the tensions between them and compiles encouraging evidence that resolutions can be found The book appraises how climatic and non climatic stressors play a role what role science does and can play in adaptation decision making and how trade offs and other concerns and priorities shape adaptation planning and implementation on the ground This is timely interdisciplinary text sheds light on key issues that arise in on the ground adaptation to climate change It bridges the gap between science and practical application of successful adaptation strategies and will be of interest to both students academics and practitioners *Essays on the Frontiers of Modern Astrophysics and Cosmology* Santhosh Mathew, 2013-11-08 This book is a collection of fourteen essays that describe an inspiring journey through the universe and discusses popular science topics that modern physics and cosmology are struggling to deal with What is our place in the universe and what happens in the magnificent cosmos where we exist for a brief amount of time In an unique way that incorporates mythological and philosophical perspectives the essays in this work address the big questions of what the universe is how it came into being and where it may be heading This exciting adventure is a rich scientific history of elegant physics mathematics and cosmology as well as a philosophical and spiritual pursuit fueled by the human imagination *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

Legitimizing ESS Thomas Kaiserfeld, Tom O'Dell, 2013-01-01 Big Science is a broad epithet that can be associated with research projects as different as the Manhattan Project the Hubble Telescope construction and the CERN establishment in Geneva While the science produced by these projects is vastly different they have in common the fact that they all involve huge budgets big facilities complex instrumentation years of planning and large multidisciplinary teams of researchers In this book the authors examine the complexity of the cultural social and political processes from which and in which Big Science develops They do so by focusing upon the planning and development of the European Spallation Source ESS that is to be located in Lund in southern Sweden Together the chapters represent a variety of perspectives to highlight the complexity of the processes that are integral to Big Science Thus this volume examines the very different roles Big Science may be given in different contexts locally regionally nationally and internationally as well as historically The book is based on the research of scholars based at Lund University from the disciplines of archive and library sciences art history and visual studies ethnology gender studies geography history of ideas and sciences media and communication philosophy and policy research Educational Research and Innovation Innovating Education and Educating for Innovation The Power of Digital Technologies and Skills OECD, 2016-09-26 OECD s Innovation Strategy calls upon all sectors in the economy and society to innovate in order to foster productivity growth and well being Education systems are critically important for innovation through the development of skills that nurture new ideas and technologies *The Age of Scientific Naturalism* Bernard

Lightman, Michael S. Reidy, 2016-02-19 Physicist John Tyndall and his contemporaries were at the forefront of developing the cosmology of scientific naturalism during the Victorian period They rejected all but physical laws as having any impact on the operations of human life and the universe Contributors focus on the way Tyndall and his correspondents developed their ideas through letters periodicals and scientific journals and challenge previously held assumptions about who gained authority and how they attained and defended their position within the scientific community *Advances in Photonic Crystals* Vittorio Passaro, 2013-02-13 This book collects chapters on different theoretical and experimental aspects of photonics crystals for Nanophotonics applications It is divided in two parts a theoretical section and an experimental and applicative section The first part includes chapters developing several numerical methods for analysis and design of photonic crystal devices such as 2D ring resonators for filters single and coupled nanobeam cavities birefringence in photonic crystal cavities threshold analysis in photonic crystal lasers gap solitons in photonic crystals novel photonic atolls dynamic characteristics of photonic crystal filters The second part focuses on some aspects of photonic crystals fabrication and relevant applications such as nitrogen defect technology in diamond silicon nitride free standing membranes photonic crystals structures in silicon photonic crystals for optical sensing **The Van Allen Probes Mission** Nicola Fox, James L. Burch, 2014-01-10 Documents the science the mission the spacecraft and the instrumentation on a unique NASA mission to study the Earth's dynamic dangerous and fascinating Van Allen radiation belts that surround the planet This collection of articles provides broad and detailed information about NASA's Van Allen Probes formerly known as the Radiation Belt Storm Probes twin spacecraft Earth orbiting mission The mission has the objective of achieving predictive understanding of the dynamic intense energetic dangerous and presently unpredictable belts of energetic particles that are magnetically trapped in Earth's space environment above the atmosphere It documents the science of the radiation belts and the societal benefits of achieving predictive understanding Detailed information is provided about the Van Allen Probes mission design the spacecraft the science investigations and the onboard instrumentation that must all work together to make unprecedented measurements within a most unforgiving environment the core of Earth's most intense radiation regions This volume is aimed at graduate students and researchers active in space science solar terrestrial interactions and studies of the upper atmosphere Originally published in Space Science Reviews Vol 179 1-4 2013 **Recent Advances in Photovoltaics** Meera Ramrakhiani, 2017-10-01 The ever growing demand for clean energy potentially can be met by solar to electrical energy conversion This book on Recent Advances in Photovoltaics presents a detailed overview of recent research and developments in the field of photovoltaics and solar cells It starts with the basic theory and gradual progress in the field of photovoltaics and various generations of solar cells The search for new materials and or new structures such as multi junctions nanostructures photoelectrochemical cells organic solar cells etc for improved performance is discussed The experimental investigations on certain materials and modelling for better results are also described in the book Photovoltaics Solar Cells

Multi Junctions Solar Cells Nanostructured Solar Cells Photoelectrochemical Solar Cells Organic Solar Cells Polymer Solar Cells

Inclusive and Adaptive Teaching Peter S. Westwood, 2013 What does it actually mean to teach an inclusive mixed ability class From the author of the classic teacher text Commonsense Methods for Children with Special Needs this new book from Peter Westwood fully acknowledges what is feasible and useful to teachers in today's inclusive classroom This insightful teaching resource promotes a fully inclusive approach to teaching the common curriculum to all while acknowledging differences among learners in relation to intelligence gender socioeconomic background cultural background language skills and disabilities Drawing on the underlying principles of inclusive education and on curriculum and learning theories Westwood discusses in detail the challenge of diversity in the classroom The author presents in practical terms an adaptive approach to teaching that can respond when necessary to differences among students Accessible chapters in this book present sound pedagogical practice linked with adapting curriculum content helpful teaching methods a range of resource materials useful assessment procedures support for learning The writer draws appropriately on international research and current learning theories to support this approach whilst each chapter contains an up to date list of online and print resources easily available to teachers who wish to pursue topics in greater depth This book will be of interest to both practising and trainee teachers and teaching assistants as well as school principals school counsellors and educational psychologists

Questions and answers for job interview Offshore Drilling Platforms Petrogav International Oil & Gas Training Center, 2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBook that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 271 questions and answers for job interview and as a BONUS 290 links to video movies This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

Ethics and climate change, 2015-07-27 Climate change is the most significant moral and environmental issue of our time This project seeks to help deepen explicit ethical reflection around the world on national responses to climate change by developing a publicly available record on national compliance with ethical obligations for climate change similar to the reports that are now available on national compliance with human rights obligations

Inclusive and Adaptive Teaching Peter Westwood, 2013-01-04 What does it actually mean to teach an inclusive mixed ability class From the author of the classic teacher text Commonsense Methods for Children with Special Needs this new book from Peter Westwood fully acknowledges what is feasible and useful to teachers in today's inclusive classroom This insightful teaching resource promotes a fully inclusive approach to teaching the common curriculum to all while acknowledging differences among learners in relation to intelligence gender socioeconomic background cultural background

language skills and disabilities Drawing on the underlying principles of inclusive education and on curriculum and learning theories Westwood discusses in detail the challenge of diversity in the classroom The author presents in practical terms an adaptive approach to teaching that can respond when necessary to differences among students Accessible chapters in this book present sound pedagogical practice linked with adapting curriculum content helpful teaching methods a range of resource materials useful assessment procedures support for learning The writer draws appropriately on international research and current learning theories to support this approach whilst each chapter contains an up to date list of online and print resources easily available to teachers who wish to pursue topics in greater depth This book will be of interest to both practising and trainee teachers and teaching assistants as well as school principals school counsellors and educational psychologists

Energy in International Trade Law Anna-Alexandra Marhold,2021-07-15 Against the backdrop of energy markets that have radically changed in recent decades this book offers an in depth study of energy regulation in international trade law The author seeks to clarify what we define as energy in the context of the applicable international trade rules and gives the reader a thorough analysis of the concepts history and law of the various legal frameworks underpinning international energy trade In addition several case studies address the ongoing quest for energy security and show how the existing rules relate to some of the vast challenges that energy markets face today notably the decentralisation and decarbonisation of energy markets

Literacy in the Digital University Robin Goodfellow,Mary R. Lea,2013-10-08 Literacy in the Digital University is an innovative volume bringing together perspectives from two fields of enquiry and practice literacies and learning and learning technologies With their own histories and trajectories these fields have seldom overlapped either in practice theory or research In tackling this divide head on the volume breaks new ground It illustrates how complementary and contrasting approaches to literacy and technology can be brought together in productive ways and considers the implications of this for practitioners working across a wide range of contexts The book showcases work from well respected authorities in the two fields in order to provide the foundations for new conversations about learning and practice in the digital university It will be of particular relevance to university teachers and researchers educational developers and learning technologists library staff university managers and policy makers and not least learners themselves particularly those studying at post graduate level

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