



education

Department:
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 September 2013

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The End of Doom Ronald Bailey, 2015-07-21 In the past five decades there have been many many forecasts of impending environmental doom They have universally been proven wrong Meanwhile those who have bet on human resourcefulness have almost always been correct In his widely praised book *Ecoscam* Ronald Bailey strongly countered environmentalist alarmism using facts to demonstrate just how wildly overstated many claims of impending ecological doom really were Now twenty years later the Reason Magazine science correspondent is back to assess the future of humanity and the global biosphere Bailey finds contrary to popular belief that many present ecological trends are quite positive Including Falling cancer incidence rates in the United States The likelihood of a declining world population by mid century The abundant return of agricultural land to nature as the world reaches peak farmland A proven link between increases in national wealth and reductions in air and water pollution Global warming is a problem but the cost of clean energy could soon fall below that of fossil fuels In *The End of Doom* Bailey avoids polemics and offers a balanced fact based and ultimately hopeful perspective on our current environmental situation Now isn't that a breath of fresh air

Can Science Fix Climate Change? Mike Hulme, 2014-06-04 Climate change seems to be an insurmountable problem Political solutions have so far had little impact Some scientists are now advocating the so called Plan B a more direct way of reducing the rate of future warming by reflecting more sunlight back to space creating a thermostat in the sky In this book Mike Hulme argues against this kind of hubristic techno fix Drawing upon a distinguished career studying the science politics and ethics of climate change he shows why using science to fix the global climate is undesirable ungovernable and unattainable Science and technology should instead serve the more pragmatic goals of increasing societal resilience to weather risks improving regional air quality and driving forward an energy technology transition Seeking to reset the planet's thermostat is not the answer

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

Smart Grid Applications and Developments Daphne Mah, Peter Hills, Victor O.K. Li, Richard Balme, 2014-07-25 Meeting today's energy and climate challenges require not only technological advancement but also a good understanding of stakeholders perceptions political sensitivity well informed

policy analyses and innovative interdisciplinary solutions This book will fill this gap This is an interdisciplinary informative book to provide a holistic and integrated understanding of the technology stakeholder policy interactions of smart grid technologies The unique features of the book include the following a interdisciplinary approach by bringing in the policy dimensions to smart grid technologies b global and Asian perspective and c learning from national case studies This book is organised into five sections Part 1 discusses the historical and conceptual aspects of smart grids Part 2 introduces the technological aspects and showcase the state of the art of the technologies Part 3 explores the policy and governance dimensions by bringing in a stakeholder perspective Part 4 presents a collection of national case studies Part 5 shares insights and lesson learnt and provide policy recommendations This book showcases the state of the art R D developments and policy experiences This book contributes to a better understanding of governance institution and policy challenges and helps formulate policy recommendations for successful smart grid deployment

The Political Economy of an Emerging Global Power L. Casanova, J. Kassum, 2014-06-03 Is Brazil ready to take its place among the world's leading powers The authors examine Brazil's hard power and soft power resources assessing the challenges the country will need to overcome in order to build its own Brazilian dream and project itself on the international stage *Renewable Gas* Jo Abbes, 2016-04-29 The author looks at the prospects for a transition from natural gas to low carbon gas which could take several decades and at how this will depend on the evolution of the fossil fuel industry She investigates the technologies and energy systems for making the best use of renewable gas resources

Training for job interview Offshore Oil & Gas Platforms Petrogav International Oil & Gas Training Center, 2020-07-01 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 eBooks 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 281 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process 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 **150**

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Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry *The Role of Law and Regulation in Sustaining Financial Markets* Niels Philipsen, Guangdong Xu, 2014-11-13 This book explores the role of law and regulation in sustaining financial markets in both developed and developing countries particularly the European Union United States and China The central argument of this book is that law matters for the operation of financial markets which in turn significantly influences the performance of firms industries and economies The Role of Law and Regulation in Sustaining Financial Markets is divided into four parts Part one addresses the connection between law financial development and economic growth Part two deals with the role of financial regulation which can be used to correct market failures such as negative externalities information asymmetries and monopolies Part three focuses on the design functioning and performance of different financial instruments Part four examines the topic of Corporate Social Responsibility This book contributes to the law and finance literature by studying certain conventional issues such as the relationship between finance and economic growth and the effects of regulatory quality on financial development from new perspectives and or with new evidence data and cases It also explores novel topics such as project finance contracts insurance and climate change the shadow banking system that have been overlooked in current literature This book is meaningful not only for the EU and the US which have suffered considerably from the financial crisis of 2008 but also for China which is struggling to build a sound institutional infrastructure to govern its increasingly complicated financial system By comparing the regulatory philosophies and practices of the EU the US and China this book will help the reader to understand the diverse nature of the global law and finance nexus and avoid succumbing to the myth of one size fits all **The technological process on Offshore**

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Jensen, Geir Hønneland, 2015-09-25 The Arctic has again become one of the leading issues on the international foreign policy agenda in a manner unseen since the Cold War Drawing on the perspectives of geo politics and international law this Handbook offers fresh insights and perspectives on the most pressing issues grouped under the headings of political ascendancy climate and environmental issues resources and energy and the response and policies of affected countries

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Counterterrorism Benoît Gomis,2015-07-17 Counterterrorism Reassessing the Policy Response promotes a more nuanced understanding of the effectiveness of current counterterrorism practices and the need for reform It challenges government media and academic accounts that exaggerate terrorist threats particularly in comparison to other threats such as organized crime Author BenoGomis r Bihar and Mithila J. Albert Rorabacher,2016-09-13 The struggling states of Bihar and Mithila serve as extreme examples of India s problems Development here has been thwarted by a hereditary landed aristocracy supported by religion casteism custom social stratification tradition and patterns of behaviour that can be traced back millennia In turn all these have been masterfully manipulated by co opted politicians who have turned politics into a veritable art form as this volume comprehensively demonstrates Please note Taylor Francis does not sell or distribute the Hardback in India Pakistan Afghanistan Nepal Bhutan Bangladesh and Sri Lanka **Drones and the Future of Air Warfare** Michael P. Kreuzer,2016-05-26 This book examines the evolution of airpower and specifically the growth and proliferation of Remotely Piloted Aircraft RPAs While most existing literature examines either the law or ethics of RPAs and some newer scholarship looks to the battlefield effectiveness the gains from strikes versus the potential for blowback etc this work investigates it from a broader military perspective It examines the strategy for employment of RPAs across the spectrum of warfare the potential deterrent value of RPAs in some circumstances and the resulting ability of RPAs to fundamentally shift the character of when and how wars are fought The central aim of this book is to evaluate the role of drones in warfare to date and make basic projections on how states will adopt RPAs and UCAVs in the future At the core is the goal of answering a broad underlying research question How will the RPA innovation impact military strategy and international security This book will be of much interest to students of airpower drone warfare military and strategic studies security studies and IR Droplets and Sprays Sergei Sazhin,2014-05-19 Providing a clear and systematic description of droplets and spray dynamic models this book maximises reader insight into the underlying physics of the processes involved outlines the development of new physical and mathematical models and broadens understanding of interactions between the complex physical processes which take place in sprays Complementing approaches based on the direct application of computational fluid dynamics CFD Droplets and Sprays treats both theoretical and practical aspects of internal combustion engine process such as the direct injection of liquid fuel subcritical heating and evaporation Including case studies that illustrate the approaches relevance to automotive applications it is also anticipated that the described models can find use in

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web if this parameter is omitted it is assumed that the rate dependent material behavior depends only on temperature see specifying field variable dependence in material data definition section 16.1.2 of the abaqus analysis user's manual for more information

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web abaqus cae usage property module material editor name use the menu bar under the material options list to add behaviors to a material large strain considerations when giving material properties for finite strain calculations stress means true cauchy stress force per current area and strain means logarithmic strain

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web constant strain rates ranging from 10^{-5} s to 10^{-1} s these strain rate dependent stress strain relations are used in the input file and were simulated using fe modelling using abaqus same size of the specimen i.e. 12.7 mm diameter and 25.4 mm height is modelled in the fe analysis figure 1 shows the fe mesh developed both

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