

# basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

## SENIOR CERTIFICATE/ NATIONAL SENIOR CERTIFICATE

**GRADE 12** 

PHYSICAL SCIENCES: PHYSICS (P1)

**NOVEMBER 2020** 

**MARKS: 150** 

TIME: 3 hours

## **Physical Science Paper1 March 2015**

**IM Harris** 

## **Physical Science Paper1 March 2015:**

The Metric Tide James Wilsdon, 2016-01-20 Represents the culmination of an 18 month long project that aims to be the definitive review of this important topic Accompanied by a scholarly literature review some new analysis and a wealth of evidence and insight the report is a tour deforce a once in a generation opportunity to take stock Dr Steven Hill Head of Policy HEFCE LSE Impact of Social Sciences Blog A must read if you are interested in having a deeper understanding of research culture management issues and the range of information we have on this field It should be disseminated and discussed within institutions disciplines and other sites of research collaboration Dr Meera Sabaratnam Lecturer in International Relations at the School of Oriental and African Studies University of London LSE Impact of Social Sciences Blog Metrics evoke a mixed reaction from the research community A commitment to using data and evidence to inform decisions makes many of us sympathetic even enthusiastic about the prospect of granular real time analysis of our own activities Yet we only have to look around us at the blunt use of metrics to be reminded of the pitfalls Metrics hold real power they are constitutive of values identities and livelihoods How to exercise that power to positive ends is the focus of this book Using extensive evidence gathering analysis and consultation the authors take a thorough look at potential uses and limitations of research metrics and indicators They explore the use of metrics across different disciplines assess their potential contribution to the development of research excellence and impact and consider the changing ways in which universities are using quantitative indicators in their management systems Finally they consider the negative or unintended effects of metrics on various aspects of research culture Including an updated introduction from James Wilsdon the book proposes a framework for responsible metrics and makes a series of targeted recommendations to show how responsible metrics can be applied in research management by funders and in the next cycle of the Research Excellence Framework The metric tide is certainly rising Unlike King Canute we have the agency and opportunity and in this book a serious body of evidence to influence how it washes through higher education and research 2024-25 NTA UGC-NET/JRF General Aptitude Solved Papers YCT Expert Team, 2024 25 NTA UGC NET JRF General Aptitude Solved Papers 298 595 E This book contains compulsory papers Mathematical Sciences Physical Sciences Chemical Sciences Life Sciences Earth Sciences and the previous year solved Systems Engineering for the Digital Age Dinesh Verma, 2023-09-26 Systems Engineering for the papers with 52 sets Digital Age Comprehensive resource presenting methods processes and tools relating to the digital and model based transformation from both technical and management views Systems Engineering for the Digital Age Practitioner Perspectives covers methods and tools that are made possible by the latest developments in computational modeling descriptive modeling languages semantic web technologies and describes how they can be integrated into existing systems engineering practice how best to manage their use and how to help train and educate systems engineers of today and the future This book explains how digital models can be leveraged for enhancing engineering trades systems risk and maturity and the design of

safe secure and resilient systems providing an update on the methods processes and tools to synthesize analyze and make decisions in management mission engineering and system of systems Composed of nine chapters the book covers digital and model based methods digital engineering agile systems engineering improving system risk and more representing the latest insights from research in topics related to systems engineering for complicated and complex systems and system of systems Based on validated research conducted via the Systems Engineering Research Center SERC this book provides the reader a set of pragmatic concepts methods models methodologies and tools to aid the development of digital engineering capability within their organization Systems Engineering for the Digital Age Practitioner Perspectives includes information on Fundamentals of digital engineering graphical concept of operations and mission and systems engineering methods

Transforming systems engineering through integrating M S and digital thread and interactive model centric systems engineering The OODA loop of value creation digital engineering measures and model and data verification and validation Digital engineering testbed transformation and implications on decision making processes and architecting tradespace analysis in a digital engineering environment Expedited systems engineering for rapid capability and learning and agile systems engineering framework Based on results and insights from a research center and providing highly comprehensive coverage of the subject Systems Engineering for the Digital Age Practitioner Perspectives is written specifically for practicing engineers program managers and enterprise leadership along with graduate students in related programs of study

Geoinformatics for Marine and Coastal Management Darius Bartlett, Louis Celliers, 2016-12-19 Geoinformatics for Marine and Coastal Management provides a timely and valuable assessment of the current state of the art geoinformatics tools and methods for the management of marine systems This book focuses on the cutting edge coverage of a wide spectrum of activities and topics such as GIS based application of drainage basin analysis contribution of ontology to marine management geoinformatics in relation to fisheries management hydrography indigenous knowledge systems and marine law enforcement The authors present a comprehensive overview of the field of Geoinformatic Applications in Marine Management covering key issues and debates with specific case studies illustrating real world applications of the GIS technology This box of tools serves as a long term resource for coastal zone managers professionals practitioners and students alike on the management of oceans and the coastal fringe promoting the approach of allowing sustainable and integrated use of oceans to maximize opportunities while keeping risks and hazards to a minimum SOUVENIR of 4th International Science Congress Prof. Dipak Sharma, The Business of Bees Jill Atkins, Barry Atkins, 2017-09-08 Our bee populations are under threat Over the past 60 years they have lost much of their natural habitat and are under assault from pesticides and intensive farming We rely on bees and other insects to pollinate our fruit and vegetables and without them our environment and economy will be in crisis The Business of Bees provides the first integrated account of diminishing bee populations as well as other pollinators from an interdisciplinary perspective It explores the role of corporate responsibility

and governance as they relate to this critical issue and examines what the impact will be on consumers companies stock markets and ultimately on global society if bee populations continue to decline at a dangerous rate The book considers the issue of global bee population decline from a variety of disciplines combining the perspectives of academics in accounting science and humanities with those of practitioners in the finance industry. The chapters explore the impact of the rapid decline in pollinator populations on the natural world on corporations on the stock market and on accounting The Business of Bees will be essential reading for those in academia business and finance sectors and anyone invested in the future of our Strategic Sustainability Daniel Fogel, 2016-03-22 Strategic Sustainability examines how organizations can implement environmental sustainability science theories and ways of thinking to become more competitive Including examples and ideas implemented in various countries it is based on known scientific principles about the natural world and organizational principles focusing on the work domain The intersection of these two realms of research creates a powerful and new approach to comprehensive seemingly contradictory issues Daniel S Fogel draws from disparate fields and creates a story about organizations their future and how people are part of the problem and more importantly part of the solution Readers will find ways to take action to improve organizations and avoid denigrating our natural environment learning to be mindful of the urgency we should feel to improve our impact on the world The focus on the natural environment provides a powerful focus for creating value in organizations and addressing the major challenges we all face Advanced sustainability students working professionals and board members managers and legislators responsible for governing organizations or implementing public policy will find this book useful A companion website features an instructor s manual with test questions as well as 38 10 minute videos for classroom use Essays in the Philosophy of Chemistry Eric Scerri, Grant Fisher, 2016-04-10 The philosophy of chemistry has emerged in recent years as a new and autonomous field within the Anglo American philosophical tradition With the development of this new discipline Eric Scerri and Grant Fisher's Essays in Philosophy of Chemistry is a timely and definitive guide to all current thought in this field One of the themes of this collection is how philosophy of chemistry can make a contributions to problems of philosophy more generally such as how chemistry and quantum chemistry contribute to the philosophy of the mind Sarah Bowdich Lee (1791-1856) and Pioneering **Perspectives on Natural History** Mary Orr, 2024-09-17 History from below uncovers overlooked protagonists contributing to international endeavour often against considerable odds Mrs T Edward Bowdich then Mrs R Lee 1791 1856 is indicative When women allegedly cannot participate in early nineteenth century scientific exploration discovery and publication Sarah s multiple specialist contributions to French and British natural history have attracted no book length study This first appraisal of Sarah's unbroken production of discipline changing scientific work over three decades in modern ichthyology in historical geography of West Africa and in the next generational dissemination of expert scientific knowledge does more than fill this gap The book also pivotally investigates the intercultural interdisciplinary and multi genre reach of Sarah's pioneering

perspectives and contributions and how she could achieve her work independently in her own name s over three decades Sarah's larger significance is then to provide a very different narrative for women at work in expert nineteenth century natural history making By everywhere challenging the secondary minor and domestic frames for women s contributions of the period the pioneering perspectives of Sarah's story also provide alternative paradigms to the leaky pipeline modelstill informing women's careers and work in STEM M today Stranded Assets Ben Caldecott, 2019-12-16 The topic of stranded assets created by environment related risk factors has risen up the agenda dramatically influencing many pressing topics in relation to global environmental change For example how best to manage the exposure of investments to environment related risks so that financial institutions can avoid stranded assets the financial stability implications of stranded assets and what this means for macroprudential regulation microprudential regulation and financial conduct reducing the negative consequences of stranded assets by finding ways to address unemployment lost profits and reduced tax income internalising the risk of stranded assets in corporate strategy and decision making particularly in carbon intensive sectors susceptible to the effects of societal action on climate change underpinning arguments by civil society campaigns attempting to secure rapid decarbonisation to reduce the scale of anthropogenic climate change and designing decarbonisation plans developed by governments as well as companies and investors Taken as a whole this book provides some of the latest thinking on how stranded assets are relevant to investor strategy and decision making as well as those seeking to understand and influence financial institutions This book was originally published as a special issue of the Journal of Sustainable Finance and International Handbook on Responsible Innovation René von Schomberg, Jonathan Hankins, 2019 The Investment Handbook constitutes a global resource for the fast growing interdisciplinary research and policy communities addressing the challenge of driving innovation towards socially desirable outcomes This book brings together well known authors from the US Europe and Asia who develop conceptual and regional perspectives on responsible innovation as well as exploring the prospects for further implementation of responsible innovation in emerging technological practices ranging from agriculture and medicine to nanotechnology and robotics The emphasis is on the socio economic and normative dimensions of innovation including issues of social risk and sustainability Wide Bandgap Power Electronics Isik C. Kizilyalli, Z. John Shen, Thomas M. Jahns, Daniel W. Cunningham, 2025-09-27 This book presents the transformational progress in next generation advanced converter circuit topologies based on the unique electrical properties of wide bandgap semiconductors including silicon carbide SiC and gallium nitride GaN It addresses the opportunities for significant advances in power electronics circuit performance opened by the availability of wide bandgap power devices and the challenges associated with using these devices that must be overcome when applying them The authors tackle specific grand challenges in application areas covering a broad range of power electronics circuits and systems disciplines including electric motor driven systems automotive applications air rail ship propulsion electric vehicle chargers high performance computing and data centers

power supplies solar inverters wind electric systems high medium voltage transmission distribution equipment and power electronics interacting with the grid power conversion for grid storage monolithic power processing and solid state circuit breakers Wide Bandgap Power Electronics Emerging Converter Technologies and Applications introduces readers to the unique characteristics of wide bandgap power semiconductor devices and the revolutionary impact that they are capable of having on the performance of power converters in future power electronics applications and will be an invaluable resource for practicing engineers researchers and graduate students in the field of power electronics applications and systems

**Exploring Social Inequality in the 21st Century** Jennifer Jarman, Paul Lambert, 2018-10-19 In a world where the effects of inequality occupy an increasingly prominent place on the public agenda this book provides up to date and thorough analysis from the perspective of a group of researchers at the forefront of social stratification analysis Exploring Social Inequality in the 21st Century is a clear and critical overview of current debates about social inequality It includes new information tools and approaches to conceptualising and measuring social stratification and social class as well as informative case studies Throughout the researchers describe the direct and indirect costs of social inequality Divided into two parts Conceptualising and Measuring Inequality and Costs and Consequences of Inequality in the areas of Education Employment and Global Wealth it includes new findings about the growth of wealth inequality in the G20 countries and a detailed examination of tax policies designed to reduce inequality without affecting economic growth With substantial contributions to the analysis of inequalities in education and explanations of the processes and consequences of social and gender based exclusion this book is essential reading for anyone interested in understanding contemporary social inequality This book was originally published as a special issue of the journal Contemporary Social Science **The Chemical News** and Journal of Physical Science ,1903 Escape from Shadow Physics Adam Kay, 2024-06-18 The artfully written splendid history of classical and quantum physics Science that rightfully highlights the limitations of current physics Wall Street Journal and argues for a revolutionary new understanding of quantum mechanics The received wisdom in quantum physics is that at the deepest levels of reality there are no actual causes for atomic events This idea led to the outlandish belief that quantum objects indeed reality itself aren t real unless shaped by human measurement Einstein mocked this idea asking whether his bed spread out across his room unless he looked at it And yet it remains one of the most influential ideas in science and our culture In Escape from Shadow Physics Adam Forrest Kay takes up Einstein's torch reality isn t mysterious or dependent on human measurement but predictable and independent of us At the heart of his argument is groundbreaking research with little drops of oil These droplets behave as particles do in the long overlooked quantum theory of pilot waves crucially they showcase quantum behavior while being described by classical physics And that classical quantum interface points to a true understanding of quantum mechanics and a reasonable universe A bold and essential reset of the field Escape from Shadow Physics describes the kind of true scientific revolution that comes along just once or

less in a century *Employment on Offshore Drilling Platforms COMPLETE COURSE* Petrogav International Oil & Gas Training Center, 2020-07-02 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 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 As a BONUS this eBook contains web addresses to 307 video movies for a better understanding of the technological process and 205 web addresses to recruitment companies where you may apply for a job

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the future of the academy and reflect more deeply on the racial ethnic and socioeconomic diversity within higher education No other book covers such wide ranging issues under the broader theme of higher education s relationship to society Highly acclaimed and incorporating cutting edge research American Higher Education in the Twenty First Century is now more useful and engaging than ever Contributors Michael N Bastedo Philip G Altbach Patricia J Gumport Benjamin Baez Peter Riley Bahr Joy Blanchard Corbin M Campbell Melanie E Corrigan Peter D Eckel Roger L Geiger Lawrence E Gladieux Sara Goldrick Rab Jillian Leigh Gross D Bruce Johnstone Adrianna Kezar Jacqueline E King Aims C McGuinness Jr Michael Mumper Anna Neumann Robert M O Neil Laura W Perna Gary Rhoades Roman Ruiz Lauren Schudde Sheila Slaughter Daryl G Smith Chemical News and Journal of Physical Science ,1870

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