



# basic education

Department:  
Basic Education  
REPUBLIC OF SOUTH AFRICA

## NATIONAL SENIOR CERTIFICATE

GRADE 11

PHYSICAL SCIENCES: PHYSICS (P1)

EXEMPLAR 2013

MARKS: 150

TIME: 3 hours

This question paper consists of 17 pages and 2 data sheets.

# Physical Science Paper June Exemplar 2013

**D. Favrholdt**



## **Physical Science Paper June Exemplar 2013:**

**Computational Science and Its Applications -- ICCSA 2013** Beniamino Murgante, Sanjay Misra, Maurizio Carlini, Carmelo Torre, Hong-Quang Nguyen, David Taniar, Bernady O. Apduhan, Osvaldo Gervasi, 2013-06-22 The five volume set LNCS 7971 7975 constitutes the refereed proceedings of the 13th International Conference on Computational Science and Its Applications ICCSA 2013 held in Ho Chi Minh City Vietnam in June 2013 The 248 revised papers presented in five tracks and 33 special sessions and workshops were carefully reviewed and selected The 46 papers included in the five general tracks are organized in the following topical sections computational methods algorithms and scientific applications high performance computing and networks geometric modeling graphics and visualization advanced and emerging applications and information systems and technologies The 202 papers presented in special sessions and workshops cover a wide range of topics in computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality *Design Science at the Intersection of Physical and Virtual Design* Jan vom Brocke, Riitta Hekkala, Sudha Ram, Matti Rossi, 2013-06-21 This book constitutes the refereed proceedings of the 8th International Conference on Design Science Research in Information Systems and Technology DESRIST 2013 held in Helsinki Finland in June 2013 The 24 full papers 8 research in progress papers 12 short papers and 8 poster abstracts were carefully reviewed and selected from 93 submissions The papers are organized in topical sections on system integration and design meta issues business process management and ERP theory development emerging themes green IS and service management method engineering papers describing products and prototypes and work in progress papers Positive Psychological Interventions Beyond Weird Contexts: How, When, and Why They Work Llewellyn Ellardus Van Zyl, Marijke Schotanus-Dijkstra, Susana Llorens, Jeff Klibert, Machteld Van Den Heuvel, Claude-Hélène Mayer, Wenjie Duan, Dan Tomasulo, 2022-11-14 **Sustainable Plastics** Joseph P. Greene, 2014-09-22 Providing guidelines for implementing sustainable practices for traditional petroleum based plastics biobased plastics and recycled plastics Sustainable Plastics and the Environment explains what sustainable plastics are why sustainable plastics are needed which sustainable plastics to use and how manufacturing companies can integrate them into their manufacturing operations A vital resource for practitioners scientists researchers and students the text includes impacts of plastics including Life Cycle Assessments LCA and sustainability strategies related to biobased plastics and petroleum based plastics as well as end of life options for petroleum and biobased plastics **The Indian Science Community** Venni V. Krishna, 2024-09-30 This book focuses on the historical and sociological dimensions of scientists working in laboratories in India offering insights into the historical sociological and policy factors that shape scientific pursuits It illuminates the challenges accomplishments and the evolving role of science in societal development The author initiates a broader discourse on the interplay between scientific advancements societal contexts and policy frameworks The book fosters a deeper understanding of science s role in shaping

India's social fabric and contributing to the global scientific dialogue. It also explores issues such as brain drain, science activism, and the conflict between university and government-run models of science. Lucid and topical, the book will be of considerable interest to both social and natural scientists as well as the general academic community, including research students in science, technology, history, social history of science, science and technology studies, and innovation policies.

**Thinking with Feeling** Douglas P. Newton, 2014-03-05 Are emotions good or bad for thinking and learning? Have you ever wondered why a good lesson of one year falls flat in another? Why do students behave the way they do? Teachers are expected to foster productive thought, yet the neglect of emotion in the classroom in favour of intellect means teaching and learning is often not as effective as it might be. *Thinking with Feeling* explores what we mean by productive thought, its interrelationship with mood and emotions, how teachers can manage that interaction to improve teaching and learning, and what teacher trainers could do about it. Synthesising the most important international research in the field, it offers a framework for productive, purposeful thought, deduction, understanding, creative thinking, wise thinking, and critical thinking, and explains how mood and emotion can support and also impede learning. It considers the effect of the interplay of emotion and intellect on classroom behaviour, on students' public performance and performance in tests, and how emotional labour can affect the teacher. Illustrated with examples from practice, this challenging, thoughtful study offers education professionals a basis for understanding the interaction of emotions and cognition and making it a successful partnership in order to improve teaching and learning.

*Science Education in East Asia* Myint Swe Khine, 2015-09-03 This book presents innovations in teaching and learning science, novel approaches to science curriculum, cultural and contextual factors in promoting science education, and improving the standard and achievement of students in East Asian countries. The authors in this book discuss education reform and science curriculum changes and promotion of science and STEM education, parental roles and involvement in children's education, teacher preparation and professional development, and research in science education in the context of international benchmarking tests to measure the knowledge of mathematics and science, such as the Trends in Mathematics and Science Study (TIMSS) and achievement in science, mathematics, and reading like Programme for International Student Assessment (PISA). Among the high-achieving countries, the performance of the students in East Asian countries such as Singapore, Taiwan, Korea, Japan, Hong Kong, and China (Shanghai) are notable. This book investigates the reasons why students from East Asian countries consistently claim the top places in each and every cycle of those studies. It brings together prominent science educators and researchers from East Asia to share their experience and findings, reflection, and vision on emerging trends, pedagogical innovations, and research-informed practices in science education in the region. It provides insights into effective educational strategies and development of science education to international readers.

Big Scientific Data Benchmarks, Architecture, and Systems Rui Ren, Chen Zheng, Jianfeng Zhan, 2019-01-11 This book constitutes the refereed proceedings of the First Workshop on Big Scientific Data Benchmarks, Architecture, and Systems (SDBA 2018).

held in Beijing China in June 2018 The 10 revised full papers presented were carefully reviewed and selected from 22 submissions The papers are organized in topical sections on benchmarking performance optimization algorithms big science data framework *High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations* National Academies of Sciences, Engineering, and Medicine, National Academy of Engineering, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Connector Reliability for Offshore Oil and Natural Gas Operations, 2018-07-12 Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States Advances in locating deposits and improvements in drilling and recovery technology have made it technically and economically feasible to extract these resources under harsh conditions But extracting these offshore petroleum resources involves the possibility however remote of oil spills with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of those performing the extraction The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can quickly disperse the oil over a large area and thus cleanup can be problematic Bolted connections are an integral feature of deep water well operations High Performance Bolting Technology for Offshore Oil and Natural Gas Operations summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment as well as best practices from other industrial sectors It focuses on critical bolting bolts studs nuts and fasteners used on critical connections VRx Brennan Spiegel, 2020-10-06 A leading doctor unveils the groundbreaking potential of virtual medicine Brennan Spiegel has spent years studying the medical power of the mind and in VRx he reveals a revolutionary new kind of care virtual medicine It offers the possibility of treating illnesses without solely relying on intrusive surgeries or addictive opioids Virtual medicine works by convincing your body that it's somewhere or something it isn't It's affordable widely available and has already proved effective against everything from burn injuries to stroke to PTSD Spiegel shows how a simple VR headset lets a patient with schizophrenia confront the demon in his head how dementia patients regain function in a life size virtual town and how vivid simulations of patients experiences are making doctors more empathic VRx is a revelatory account of the connection between our bodies and ourselves In an age of overmedication and depersonalized care it offers no less than a new way to heal **Sport Development in the United States** Peter Smolianov, Dwight Zakus, Joseph Gallo, 2014-09-15 The development of both elite high performance sport and mass participation grassroots level sport are central concerns for governments and sports governing bodies This important new study is the first to closely examine the challenges and opportunities for sports development in the United States a global sporting giant with a unique market driven sporting landscape Presenting an innovative model of integrated sports development the book explores the inter relationship between elite and mass sport across history drawing on comparative international examples from Australia to the former USSR and Eastern bloc countries At the heart of the book is an in depth empirical study of three traditional and emerging sports in the US tennis soccer and rugby that offer important lessons on

the development of elite sport methods for increasing participation and the establishment of new sports in new markets No other book has attempted to model sports development in the United States in such depth before Therefore this should be essential reading for all students researchers administrators or policy makers with an interest in sports development sports management sports policy or comparative international sport studies      *Forensic Podiatry* Denis Wesley Vernon, John A. DiMaggio, 2017-06-01 *Forensic Podiatry Principles and Methods* Second Edition has been completely updated to reflect the latest developments and advancements in this changing field New additions to the book from the previous edition include all new chapters on the expert witness Frye Test and Daubert Standard as well as revised theories on gait analysis bare footprint identification and footwear examination The new edition includes extensive case studies and an international compilation of current best practices Since this text's first publication the field of forensic podiatry has rapidly developed from relative obscurity to a dynamic internationally recognized discipline Forensic podiatrists have been able to advance improvements in the field both in widening the range of applications and deepening the practice through improved techniques to strengthen evidentiary conclusions Written by two pioneers in the field *Forensic Podiatry* includes over one hundred detailed illustrations to serve as an invaluable resource for students practicing forensic podiatrists legal professionals and those new to the profession      *Design for the Changing Educational Landscape* Andrew Harrison, Les Hutton, 2013-10-15 The whole landscape of space use is undergoing a radical transformation In the workplace a period of unprecedented change has created a mix of responses with one overriding outcome observable worldwide the rise of distributed space In the learning environment the social political economic and technological changes responsible for this shift have been further compounded by constantly developing theories of learning and teaching and a wide acceptance of the importance of learning as the core of the community resulting in the blending of all aspects of learning into one seamless experience This book attempts to look at all the forces driving the provision and pedagogic performance of the many spaces real and virtual that now accommodate the experience of learning and provide pointers towards the creation and design of learning centred communities Part 1 looks at the entire learning universe as it now stands tracks the way in which its constituent parts came to occupy their role assesses how they have responded to a complex of drivers and gauges their success in dealing with renewed pressures to perform It shows that what is required is innovation within the spaces and integration between them Part 2 finds many examples of innovation in evidence across the world in schools the higher and further education campus and in business and cultural spaces but an almost total absence of integration Part 3 offers a model that redefines the learning landscape in terms of learning outcomes mapping spatial requirements and activities into a detailed mechanism that will achieve the best outcome at the most appropriate scale By encouraging stakeholders to creating an events based rather than space based identity the book hopes to point the way to a fully integrated learning landscape a learning community      *The Physical City* Neil L. Shumsky, 2013-12-16 First Published in 1996 Part of a series

that brings together more than 200 scholarly articles pertaining to the history and development of urban life in the United States during the past two centuries The physical development of cities and their infrastructure is considered in Volume 2 which focuses on city planning and its origins in the Rural Cemetery Movement the City Beautiful Movement and the role of business in advocating more rational and efficient urban places Volume 2 also contains articles about essential aspects of the urban infra structure and the provision of basic services essential for urban survival water sewer and transportation systems

**Florence After the Medici** Corey Tazzara, Paula Findlen, Jacob Soll, 2019-10-08 Although there is a rich historiography on Enlightenment Tuscany in Italian as well as French and German the principle Anglophone works are Eric Cochrane's Tradition and Enlightenment in the Tuscan Academies 1961 and his Enlightenment Florence in the Forgotten Centuries 1973 It is high time to revisit the Tuscan Enlightenment This volume brings together an international group of scholars with the goal of putting to rest the idea that Florence ceased to be interesting after the Renaissance Indeed it is partly the explicit dialogue between Renaissance and Enlightenment that makes eighteenth century Tuscany so interesting This enlightened age looked to the past It began the Herculean project of collecting editing and publishing many of the manuscripts that today form the bedrock of any serious study of Dante Petrarch Boccaccio Machiavelli Vasari Galileo and other Tuscan writers This was an age of public libraries projects of cultural restoration and the emergence of the Uffizi as a public art gallery complemented by a science museum in Peter Leopold's reign whose relics can still be visited in the Museo Galileo and La Specola

**Issues in Aging** Mark Novak, 2018-02-02 Issues in Aging combines social psychological biological and philosophical perspectives to present a multifaceted picture of aging Novak illustrates both the problems and the opportunities that accompany older age This text helps students understand the tremendous variability in aging and introduces them to careers working with older adults This new edition reflects the continued changes in the way we age The fourth edition has been updated to include emerging issues in aging These include the prevalence of HIV AIDs in later life current research on mental potential in old age the creation of age friendly cities and new options for end of life care Each chapter begins with a set of learning objectives to guide students in their reading and concludes with a list of main points questions for discussion or study suggested readings and relevant web sites to consult Each chapter also includes up to date charts and graphs as well as key terms to help students understand the issues presented Break out boxes reveal the human side of aging through the stories of individuals in real life and in the media

**Psychology of Sustainability** Robert G. Jones, 2014-07-11 Psychology of Sustainability An Applied Perspective examines the many psychological factors that lead to human behavioral effects on the environment Each chapter will apply elements from a basic research area into the context of criteria specific to sustainability Increased interest has led many universities to offer courses on Psychology of Sustainability This book is the perfect text to provide an introduction to the subject Throughout the book readers will find new ways of framing questions related to human adaptability and evolutionary psychology Psychology of Sustainability is ideal for

students or professionals who are looking to contribute to the conversation      Strategic Management in Public Services Organizations Ewan Ferlie, Edoardo Ongaro, 2015-02-20 Strategic Management in Public Services Organizations sets out to connect the two traditionally disparate academic literatures of public management and strategic management The authors argue that some models of strategic management are now of enhanced relevance for contemporary public services organizations especially when considering successive New Public Management reforms This observation has important consequences for the requisite work practices skills and knowledge bases of current public managers as they are increasingly being asked to act as strategic as well as operational managers Strategic Management in Public Services Organizations takes a strongly comparative and international perspective in addressing the fundamental issue of strategic management within diverse public administrative traditions The impact of strategic management on the performance of public agencies is examined and it is argued that the appropriate use of strategic management models depends on the politico administrative and cultural contexts of the public services organization in question concluding that there is no single best way to strategically lead public organisations This is an advanced textbook aimed at the postgraduate level particularly students on MPAs and MBAs with a public sector option or MScs in Public Policy and Public Management

**Complementarity Beyond Physics (1928-1962)** D. Favrholt, 2013-10-22 This volume is divided into five parts The title of the volume refers primarily to part I which is by far the largest and comprises papers discussing the fundamental questions of biology and related psychological and philosophical problems Following the reproduction of papers brought to publication by Bohr there is a separate Appendix to Part I including some of Bohr's most interesting and substantive unpublished contributions in this area The papers in Part I span the last thirty years of Bohr's life and display his great interest in biological problems and his unremitting efforts to show that biology cannot be reduced to physics and chemistry Part II contains articles of a more general cultural interest Some of these show that Bohr regarded the complementary perspective to be of value also outside the scientific sphere Part III contains the articles Bohr wrote about the great Danish philosopher Harald Hffding These short papers are presented in a section on their own because of the continuing discussion in the history of science about Hffding's possible influence on Bohr's work in physics and his whole scientific approach Part IV comprises articles illuminating the history of 20th century physics Bohr had great veneration for his predecessors and teachers and he prepared these articles with great care Part V contains correspondence relating to the material in Parts I through IV As in previous volumes an inventory of relevant unpublished manuscripts held at the Niels Bohr Archive constitutes an appendix to the whole volume      Applications of Quantum Mechanical Techniques to Areas Outside of Quantum Mechanics. 2nd Edition Emmanuel Haven, Andrei Khrennikov, 2019-11-14 This book deals with applications of quantum mechanical techniques to areas outside of quantum mechanics so called quantum like modeling Research in this area has grown over the last 15 years But even already more than 50 years ago the interaction between Physics Nobelist



Pauli and the psychologist Carl Jung in the 1950s on seeking to find analogous uses of the complementarity principle from quantum mechanics in psychology needs noting. This book does NOT want to advance that society is quantum mechanical. The macroscopic world is manifestly not quantum mechanical. But this rules not out that one can use concepts and the mathematical apparatus from quantum physics in a macroscopic environment. A mainstay ingredient of quantum mechanics is quantum probability and this tool has been proven to be useful in the mathematical modelling of decision making. In the most basic experiment of quantum physics the double slit experiment it is known from the works of A Khrennikov that the law of total probability is violated. It is now well documented that several decision making paradoxes in psychology and economics such as the Ellsberg paradox do exhibit this violation of the law of total probability. When data is collected with experiments which test non rational decision making behaviour one can observe that such data often exhibits a complex non commutative structure which may be even more complex than if one considers the structure allied to the basic two slit experiment. The community exploring quantum like models has tried to address how quantum probability can help in better explaining those paradoxes. Research has now been published in very high standing journals on resolving some of the paradoxes with the mathematics of quantum physics. The aim of this book is to collect the contributions of world's leading experts in quantum like modeling in decision making psychology cognition economics and finance.

The book delves into Physical Science Paper June Exemplar 2013. Physical Science Paper June Exemplar 2013 is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physical Science Paper June Exemplar 2013, encompassing both the fundamentals and more intricate discussions.

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### **Physical Science Paper June Exemplar 2013 Introduction**

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