

## 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 ( $\mu_k$ ) 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 2013

**Xiang Xie**



## **Physical Science Paper 1 2013:**

*Lecture Notes on Resource and Environmental Economics* Anthony C. Fisher, 2020-06-26 This book based on lectures on natural and environmental resource economics offers a nontechnical exposition of the modern theory of sustainability in the presence of resource scarcity. It applies an alternative take on environmental economics focusing on the economics of the natural environment including development computation and potential empirical importance of the concept of option value as opposed to the standard treatment of the economics of pollution control. The approach throughout is primarily conceptual and theoretical though empirical estimation and results are sometimes noted. Mathematics ranging from elementary calculus to more formal dynamic optimization is used especially in the early chapters on the optimal management of exhaustible and renewable resources but results are always given an economic interpretation. Diagrams and numerical examples are also used extensively. The first chapter introduces the classical economists as the first resource economists in their discussion of the implications of a limited natural resource base agricultural land for the evolution of the wider economy. A later chapter returns to the same concerns along with others stimulated by the energy and environmental crises of the 1970s and beyond. One section considers alternative measures of resource scarcity and empirical findings on their behavior over time. Another introduces the modern concept of sustainability with an intuitive development of the analytics. A chapter on the dynamics of environmental management motivates the concept of option value shows how to compute it then demonstrates its importance in an illustrative empirical example. The closing chapter on climate change first projects future changes and potential catastrophic impacts then discusses the policy relevance of both option value and discounting for the very long run. This book is intended for resource and environmental economists and can be read by interested graduate and advanced undergraduate students in the field as well.

*Smart Cities in the Mediterranean* Anastasia Stratigea, Elias Kyriakides, Chrysses Nicolaides, 2017-04-25 This book sheds new light on the current and future challenges faced by cities and presents approaches options and solutions enabled by Information and Communication Technologies ICT in the smart city context. By focusing on sustainability objectives within a rapidly changing social economic environmental and technological setting it explores a variety of planning challenges faced by contemporary cities and the power of smart city developments in terms of providing innovative tools approaches methodologies and technologies to help cities cope with these challenges. Key issues addressed include smart city e planning and e participation smart data management to facilitate decision making processes in cities and insular communities on a variety of topics smart and sustainable management aspects of climate change water scarcity mobility energy infrastructure tourism blue growth risk assessment etc. The book presents current and potential pathways and applications for the evolution of smart cities and communities taking into consideration the unique problems and opportunities emanating from their specific geographical location. The case study examples mainly concern small and medium sized cities and communities as well as insular areas in the Mediterranean region while also incorporating lessons

learned from other parts of the world Their focus is on the specific opportunities and threats emerging in these urban and insular environments which are characterized by their role as globally known tourist destinations their coastal or port character and unique cultural resources as well as the high rated vulnerability in very many sustainability respects social economic biodiversity urbanization migration poverty etc to be found in the Mediterranean region at large *How To Save Our Planet* Mark A. Maslin, 2021-05-06 Punchy and to the point No beating around the bush This brilliant book contains all the information we need to have in our back pocket in order to move forward Christiana Figueres Former Executive Secretary UN Climate Change Convention Amazing book Chris Evans Virgin Radio Breakfast Show Everyone should have this book Rick Edwards BBC Radio 5 Live A timely and important book not only laying out the facts but suggesting real solutions to the challenges facing us Professor Alice Roberts Anatomist Professor of Public Engagement in Science University of Birmingham \_\_\_\_\_ How can we save our planet and survive the 21st century How can you argue with deniers How can we create positive change in the midst of the climate crisis Professor Mark Maslin has the key facts that we need to protect our future Global awareness of climate change is growing rapidly Science has proven that our planet and species are facing a massive environmental crisis How to Save Our Planet is a call to action guaranteed to equip everyone with the knowledge needed to make change Be under no illusion the challenges of the twenty first century are immense We need to deal with climate change environmental destruction global poverty and ensure everyone s security We have the technology We have the resources We have the money We have the scientists the entrepreneurs and the innovators We lack the politics and policies to make your vision of a better world happen So we need a plan to save our planet How to Save Our Planet is your handbook of how we together can save our precious planet From the history of our planet and species to the potential of individuals and our power to create a better future Maslin inspires optimism in these bleak times We stand at the precipice The future of our planet is in our hands It s time to face the facts and save our planet from and for ourselves

\_\_\_\_\_ A handbook of clearly established authoritative facts and figures about the terrible toll we as humans have taken of our planet plus ways in which we can lessen the impact For laypeople like me who can see what is happening but haven t always got the precise statistics to hand it s hugely valuable John Simpson CBE BBC World Affairs Editor Broadcaster Author Columnist Saving the world is no small thing but picking up this book s a good start Paris Lees Contributing Editor at British Vogue campaigner I love it My kids love it Chris Evans Virgin Radio Breakfast Show A no nonsense crib sheet on the state of the world and how to help it The I Newspaper **World Development Report 2015** World Bank, 2014-12-04 Development economics and policy are due for a redesign In the past few decades research from across the natural and social sciences has provided stunning insight into the way people think and make decisions Whereas the first generation of development policy was based on the assumption that humans make decisions deliberatively and independently and on the basis of consistent and self interested preferences recent research shows that decision making

rarely proceeds this way People think automatically when deciding they usually draw on what comes to mind effortlessly People also think socially social norms guide much of behavior and many people prefer to cooperate as long as others are doing their share And people think with mental models what they perceive and how they interpret it depend on concepts and worldviews drawn from their societies and from shared histories The World Development Report 2015 offers a concrete look at how these insights apply to development policy It shows how a richer view of human behavior can help achieve development goals in many areas including early childhood development household finance productivity health and climate change It also shows how a more subtle view of human behavior provides new tools for interventions Making even minor adjustments to a decision making context designing interventions based on an understanding of social preferences and exposing individuals to new experiences and ways of thinking may enable people to improve their lives The Report opens exciting new avenues for development work It shows that poverty is not simply a state of material deprivation but also a tax on cognitive resources that affects the quality of decision making It emphasizes that all humans including experts and policy makers are subject to psychological and social influences on thinking and that development organizations could benefit from procedures to improve their own deliberations and decision making It demonstrates the need for more discovery learning and adaptation in policy design and implementation The new approach to development economics has immense promise Its scope of application is vast This Report introduces an important new agenda for the development community

**Corporate Power and Human Rights** Manette Kaisershot, Nicholas Connolly, 2018-02-02 There is ample evidence about the negative effects business activity of all types can have on the provision of human rights Equally there can be little doubt economic development usually driven through business activity and trade is necessary for any state to provide the institutions and infrastructure necessary to secure and provide human rights for their citizens The United Nations and businesses recognise this tension and are collaborating to effect change in business behaviours through voluntary initiatives such as the Global Compact and John Ruggie's Guiding Principles Yet voluntary approaches are evidently failing to prevent human rights violations and there are few alternatives in law for affected communities to seek justice This book seeks to robustly challenge the current status quo of business approaches to human rights in order to develop meaningful alternatives in an attempt to breach the gap between the realities of business and human rights and its discourse This book was previously published as a special issue of the International Journal of Human Rights

**A Dangerous World?** Christopher A. Preble, John Mueller, 2014-10-14 In 2013 Chairman of the Joint Chiefs of Staff Gen Martin Dempsey stated that the world is more dangerous than it has ever been Is this accurate Do we live in a world that is uniquely dangerous Is it possible that the many threats and dangers promoted by policymakers and the media are exaggerated or overblown In this timely edited volume experts on international security assess and put into context the supposed dangers to American security The authors examine the most frequently referenced threats including wars between nations and civil wars within nations and discuss the impact

of rising nations weapons proliferation general unrest terrorism transnational crime and state failures      *Research Anthology on Environmental and Societal Impacts of Climate Change* Management Association, Information Resources,2021-10-29 Climate change is an issue that has been generating a significant amount of discussion research and debate in recent years Climate change continues to evolve at a rapid rate and continues to have a wide array of effects on everything from temperature to plant life Beyond the negative environmental impacts climate change is also proving to be a detriment to society with increasingly violent natural disasters and human health effects It is essential to stay up to date on the latest in emerging research within this field as it continues to develop The Research Anthology on Environmental and Societal Impacts of Climate Change discusses the varied effects of climate change throughout all areas of life and provides a comprehensive dive into the latest research on key elements of society that are affected by the rapidly increasing climate change      *Global Environment Outlook - GEO-6: Healthy Planet, Healthy People* UN Environment,2019-06-06 Published to coincide with the Fourth United Nations Environmental Assembly UN Environment's sixth Global Environment Outlook calls on decision makers to take bold and urgent action to address pressing environmental issues in order to protect the planet and human health By bringing together hundreds of scientists peer reviewers and collaborating institutions and partners the GEO reports build on sound scientific knowledge to provide governments local authorities businesses and individual citizens with the information needed to guide societies to a truly sustainable world by 2050 GEO 6 outlines the current state of the environment illustrates possible future environmental trends and analyses the effectiveness of policies This flagship report shows how governments can put us on the path to a truly sustainable future emphasising that urgent and inclusive action is needed to achieve a healthy planet with healthy people This title is also available as Open Access on Cambridge Core      **5th World Congress on Disaster Management: Volume II** S. Ananda Babu,2022-12-02 World Congress on Disaster Management WCDM brings researchers policy makers and practitioners from around the world in the same platform to discuss various challenging issues of disaster risk management enhance understanding of risks and advance actions for reducing risks and building resilience to disasters The fifth WCDM deliberates on three critical issues that pose the most serious challenges as well as hold the best possible promise of building resilience to disasters These are Technology Finance and Capacity WCDM has emerged as the largest global conference on disaster management outside the UN system The fifth WCDM was attended by more than 2500 scientists professionals policy makers and practitioners all around the world despite the prevalence of pandemic      *South Asia Migration Report 2017* S. Irudaya Rajan,2016-11-25 South Asians comprise over 15 per cent of all international migrating population among the highest in the world The

countries of the Persian Gulf are perhaps still the largest recipients of migrant workers. A unique economy has developed between these two regions with all South Asian nations being major beneficiaries and featuring among the top twenty countries receiving maximum remittances globally. The South Asia Migration Report 2017 is the first of its kind documenting migration profiles, diaspora recruitment and remittances both in individual countries as well as the South Asian region as a whole. It also discusses skilled, unskilled and internal migrations. The volume includes on the ground studies from six nations: India, Pakistan, Bangladesh, Sri Lanka, Nepal and Afghanistan, discusses public policy effects of global recession on the region and its impact on migration and examines the process of reintegration of returning migrants. This book will be indispensable for scholars and researchers of economics, development studies, migration and diaspora studies, labour studies and sociology. It will also be useful to policymakers and government institutions working in the area.

*Cases on Research-Based Teaching Methods in Science Education* de Silva, Eugene, 2014-08-31. While the great scientists of the past recognized a need for a multidisciplinary approach, today's schools often treat math and science as subjects separate from the rest. This not only creates a disinterest among students but also a potential learning gap once students reach college and then graduate into the workforce. *Cases on Research Based Teaching Methods in Science Education* addresses the problems currently facing science education in the USA and the UK and suggests a new hands-on approach to learning. This book is an essential reference source for policymakers, academicians, researchers, educators, curricula developers and teachers as they strive to improve education at the elementary, secondary and collegiate levels.

*Phenomenological Approaches to Physics* Harald A. Wilschke, Philipp Berghofer, 2020-06-23. This book offers a fresh perspective on the role of phenomenology in the philosophy of physics, which opens new avenues for discussion among physicists, standard philosophers of physics and philosophers with phenomenological leanings. Much has been written on the interrelations between philosophy and physics in the late 19th and early 20th century and on the emergence of philosophy of science as an autonomous philosophical sub-discipline. This book is about the under-explored role of phenomenology in the development and the philosophical interpretation of 20th century physics. Part 1 examines questions about the origins and value of phenomenological approaches to physics: Does the work of classical phenomenologists such as Husserl, Merleau-Ponty or Heidegger contain elements of systematic value to both the practice and our philosophical understanding of physics? How did classical phenomenology influence standard philosophy of science in the Anglo-American and other traditions? Part 2 probes questions on the role of phenomenology in the philosophies of physics and science: Can phenomenology help to solve Wigner's puzzle, the problem of the unreasonable effectiveness of mathematics in describing, explaining and predicting empirical phenomena? Does phenomenology allow a better understanding of the principle of gauge invariance at the core of the standard model of contemporary particle physics? Does the phenomenological notion of Lifeworld stand in opposition to the scientific metaphysics movement or is there potential for dialogue? Part 3 examines the measurement problem: Is the solution outlined by Fritz London and Edmond Bauer merely a re-

statement of von Neumann's view or should it be regarded as a distinctively phenomenological take on the measurement problem? Is phenomenology a serious contender in continuing discussions of foundational questions of quantum mechanics? Can other interpretational frameworks such as quantum Bayesianism benefit from implementing phenomenological notions such as constitution or horizontal intentionality? *Monetary Valuation of Environmental Impacts* Bengt Steen, 2019-11-11

The book is meant to improve our understanding of sustainable development of production and consumption. Monetary values of the impact of emission and resources are determined and used in environmental management with a focus on sustainability. Values related to cultural context are not possible to predict therefore ignored. The book only focuses on environmental goods and services that are used to satisfy basic human needs. One of the benefits of monetary valuation is its holistic approach. The impact of any contributing factor on the total value can be determined and the sensitivity to uncertainty in inputs can be estimated. This is useful in developing knowledge where it is most needed. In a society there are many economic units which need to function in tandem to support human welfare. Each unit has its own system boundary in what it includes and covers in time and space. The system boundary of a sustainable unit is likely to be very long and wide. This book provides data on long term monetary values of environmental impacts from human activities. It discusses the choice of system boundaries and how to use monetary values in sustainable development. A large part of the book describes impact models in terms of the relation between emissions and natural goods and services.

**Peterson's Grad Programs in Physical Sciences, Math, Ag Sciences, Envir & Natural Res 20154 (Grad 4)** Peterson's, 2014-10-21 Graduate Programs in the Physical Sciences Mathematics Agricultural Sciences the Environment Natural Resources 2015 contains more than 3 000 graduate programs in the relevant disciplines including agriculture and food sciences astronomy and astrophysics chemistry physics mathematics environmental sciences and management natural resources marine sciences and more. Informative data profiles for more than 3 000 graduate programs at nearly 600 institutions are included complete with facts and figures on accreditation degree requirements application deadlines and contact information financial support faculty and student body profiles. Two page in depth descriptions written by featured institutions offer complete details on specific graduate programs schools or departments as well as information on faculty research. Comprehensive directories list programs in this volume as well as others in the graduate series.

**The Routledge Atlas of South Asian Affairs** Robert W. Bradnock, 2015-10-14 South Asia has developed from a group of newly independent post Colonial states of at most secondary importance to the wider world to its current position as a region of central strategic importance to both global economic development and world peace and stability. This Atlas highlights the global significance of South Asia in relation to economic geopolitical and strategic interests. It provides a coherent descriptive and analytical account of the key elements of the complex societies that make up the region and its component countries. Illustrated with more than 100 original maps and offering concise entries on key issues the book is structured thematically in these sections: Global Context Geographical

Environments Historical Evolution of South Asia Key Issues in modern South Asia Economy and Security Designed for use in teaching undergraduate and graduate classes and seminars in geography history economics anthropology international relations political science and the environment as well as regional courses on the South Asia this book is also a comprehensive reference source for libraries and decision makers focusing on South Asia *Climate Change 2014: Mitigation of Climate Change* Ottmar Edenhofer, 2015-01-26 This latest Fifth Assessment Report of the IPCC will again form the standard reference for all those concerned with climate change and its consequences **Climate Change 2014: Mitigation of Climate Change** Intergovernmental Panel on Climate Change, 2015-01-26 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change IPCC will again form the standard reference for all those concerned with climate change and its consequences including students researchers and policy makers in environmental science meteorology climatology biology ecology atmospheric chemistry and environmental policy **Making Art Work** W. Patrick McCray, 2020-10-20 The creative collaborations of engineers artists scientists and curators over the past fifty years Artwork as opposed to experiment Engineer versus artist We often see two different cultural realms separated by impervious walls But some fifty years ago the borders between technology and art began to be breached In this book W Patrick McCray shows how in this era artists eagerly collaborated with engineers and scientists to explore new technologies and create visually and sonically compelling multimedia works This art emerged from corporate laboratories artists studios publishing houses art galleries and university campuses Many of the biggest stars of the art world Robert Rauschenberg Yvonne Rainer Andy Warhol Carolee Schneemann and John Cage participated but the technologists who contributed essential expertise and aesthetic input often went unrecognized **At Risk of Deprivation** Jonas Bergmann, 2023-10-19 This open access book examines how and why various forms of climate im mobilities can impact people s objective and subjective well being Worsening climate impacts are forcing subsistence farmers worldwide to decide between staying or leaving their homes This mixed methods study analyzes cases of climate related migration displacement relocation and immobility in Peru s coastal highland and rainforest regions The results reveal that numerous farmers experienced profound and often negative well being impacts regardless of whether they stayed or migrated The higher the structural constraints such as weak governance and the more damaging the climate impacts were the higher the risk of well being declines Additionally the affected individuals often had limited agency and ability to mitigate losses These findings challenge the notion of migration as adaptation and emphasize the importance of safeguarding the human rights and security of those affected while addressing loss and damage Without significant investments in such efforts climate impacts could sharply diminish the well being of numerous subsistence farmers worldwide irrespective of whether they stay or migrate **World Ocean Assessment** Alan Simcock, 2017-04-17 This United Nations report examines the current state of knowledge of the world s oceans for policymakers and provides a reference for marine science courses

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