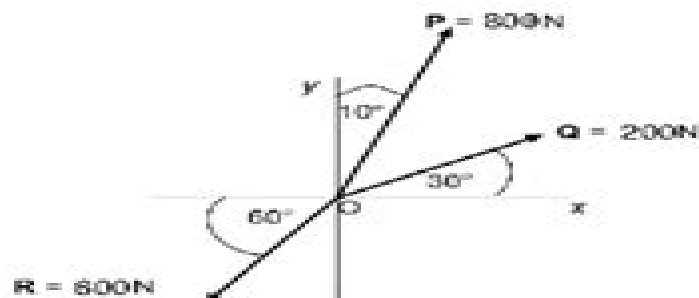


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QUESTION 2 (Start on a new page.)

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)

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J. van Huissteden



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Handbook of the Politics of the Arctic Leif Christian 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

Climate Change 2021 - The Physical Science Basis Intergovernmental Panel on Climate Change (IPCC), 2023-07-26 The Working Group I contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change IPCC provides a comprehensive assessment of the physical science basis of climate change It considers in situ and remote observations paleoclimate information understanding of climate drivers and physical chemical and biological processes and feedbacks global and regional climate modelling advances in methods of analyses and insights from climate services It assesses the current state of the climate human influence on climate in all regions future climate change including sea level rise global warming effects including extremes climate information for risk assessment and regional adaptation limiting climate change by reaching net zero carbon dioxide emissions and reducing other greenhouse gas emissions and benefits for air quality The report serves policymakers decision makers stakeholders and all interested parties with the latest policy relevant information on climate change Available as Open Access on Cambridge Core

Supply Chain Visibility Jonah Saint McIntire, 2016-04-01 Transparency and accurate management information are essential if you want to ensure that the supply chain is working for your business Supply Chain Visibility is a critical primer for readers with backgrounds in supply chain management system integration strategy consulting and enterprise software Jonah McIntire sets the stage for a new framework that empowers business leaders to connect their projects tasks or work streams back to the strategic message that it is worth applying organizational resources to supply chain visibility Drawing on research findings he reviews the prerequisites needed for a successful visibility solution and suggests a visibility fitness scorecard to compare the quality of widely varying approaches The second section of the book reviews in detail the eight most common types of supply chain visibility and offers a set of indicators of potential fit for each one The book also explains how to acquire visibility technology and the available options and includes guidance on best practice for in house designed systems If you or your organization are moving into this area Jonah s insights will place you in a far stronger position to decide exactly how to leverage the benefits of supply chain visibility solutions they also walk you carefully through the minefields of ineffective approaches or technologies to give you the greatest chance of success

An Introduction to the Green Economy Adrian C. Newton, Elena Cantarello, 2014-08-13 The green economy is widely seen as a potential solution to current global economic and environmental crises and a potential mechanism by which sustainable development might be achieved in practice Considerable investments are now being made into the development of green technology renewable

energy biodiversity conservation resource efficiency recycling of materials and green infrastructure This textbook provides a comprehensive introduction to the green economy using a strongly interdisciplinary approach based on environmental science rather than treating it as a sub set of economics The scientific principles of sustainability are presented which provide the foundations of the green economy with a particular focus on systems based approaches Examples of real world case studies are used to illustrate how the green economy can be achieved in practice In this way the authors provide a thorough overview of both the principles and practice of the green economy drawing from a wide range of disciplines including ecology geography social science psychology sustainability science environmental science law and economics The emphasis is on presenting results of the latest research derived from leading scientific journals Rather than focusing on a single definition of what constitutes a green economy the book introduces readers to the diversity of opinion that exists and engages them in what is an active on going debate This reflects the fact that many aspects of the green economy and sustainable development more generally are currently contested In particular the book will help readers to strengthen their ability to critically evaluate the evidence for and against the views presented and to actively contribute to the future development of the green economy

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 deliberately 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 *ICEL 2018 13th International Conference on e-Learning* Professor Eunice Ivala,2018-07-05 Introduction to Rural Planning Nick Gallent,Iqbal Hamiduddin,Meri Juntti,Sue Kidd,Dave Shaw,2015-06-30 *Introduction to Rural Planning* Economies Communities and Landscapes provides a critical analysis of the key challenges facing rural places and the ways that public policy and community action shape rural spaces The second edition provides an examination of the composite nature of rural planning which combines land use and spatial planning elements with community action countryside management and the projects and programmes of national and supra national agencies and organisations It also offers a broad analysis of entrepreneurial social action as a shaper of rural outcomes with particular coverage of the localism agenda and Neighbourhood Planning in England With a focus on accessibility and rural transport provision this book examines the governance arrangements needed to deliver integrated solutions spanning urban and rural places Through an examination of the ecosystem approach to environmental planning it links the procurement of ecosystem services to the global challenges of habitat degradation and loss climate change and resource scarcity and management A valuable resource for students of planning rural development and rural geography *Introduction to Rural Planning* aims to make sense of current rural challenges and planning approaches evaluating the currency of the rural label in the context of global urbanisation arguing that rural spaces are relational spaces characterised by critical production and consumption tensions **Turn Down the Heat** World Bank Publications,2014-11-20 A Report for the World Bank by the Potsdam Institute for Climate Impact Research and Analytics Computer Aided Verification Swarat Chaudhuri,Azadeh Farzan,2016-07-12 The two volume set LNCS 9779 and LNCS 9780 constitutes the refereed proceedings of the 28th International Conference on Computer Aided Verification CAV 2016 held in Toronto ON USA in July 2016 The total of 46 full and 12 short papers presented in the proceedings was carefully reviewed and selected from 195 submissions The papers were organized in topical sections named probabilistic systems synthesis constraint solving model checking program analysis timed and hybrid systems verification in practice concurrency and automata and games *Observational Assessments of Glacier Mass Changes at Regional and Global Level* Michael Zemp,Matthias Holger Braun,Fanny Brun,Laura Thomson,2021-03-26 *Transnational Perspectives on Curriculum History* Gary McCulloch,Ivor Goodson,Mariano González-Delgado,2019-11-22 This book offers a remarkable range of research that emphasises the need to analyse the shaping of curricula under historical social and political variables Teachers life stories the Cold War as a contextual element that framed curricular transformations in the US and Europe and the study of trends in education policy at transnational level are issues addressed throughout The book presents new lines of work offering multidisciplinary perspectives and provides an overview of how to move forwards The book brings together the work of international specialists on Curriculum History and presents research that offers new perspectives and methodologies from which to approach the study of the

History of Education and Educational Policy It offers new debates which rethink the historical study of the curriculum and offers a strong interdisciplinary approach with contributions across Education History and the Social Sciences This book will be of great interest for academics and researchers in the fields of education and curriculum studies It will also appeal to educational professionals teachers and policy makers

Fire and Ice Jonathan Mingle, 2025-06-25 High in the Himalayan valley of Zaskar in northwest India sits a village as isolated as the legendary Shangri La Long fed by runoff from glaciers and lofty snowfields Kumik a settlement of thirty nine mud brick homes has survived and thrived in one of the world s most challenging settings for a thousand years But now its people confront an existential threat chronic crippling drought which leaves the village canal dry and threatens to end their ancient culture of farming and animal husbandry Fire and Ice weaves together the story of Kumik s inspiring response to this calamity with the story of black carbon Black carbon from inefficient fires the particulate residue that makes soot dark is the second largest contributor to global warming after carbon dioxide It s also a key ingredient of the air pollution that public health experts regard as humanity s greatest environmental health risk worldwide soot laden smoke from household hearth fires and outdoor sources combine to kill over seven million people around the world every year Jonathan Mingle describes the joys and struggles of daily life in the Zaskar Valley where villagers are buffeted by powerful environmental and economic forces while also tracing black carbon s dark fingerprints outward from Kumik and around the world Mingle investigates its impacts on snow ice and water from Mt Everest to California and the silent health epidemic it fuels from New York to New Delhi Combining cultural history detailed reportage climate and energy science and dramatic storytelling Fire and Ice is a profound examination of the global challenges of averting climate chaos and lifting billions out of energy poverty and water scarcity Can Kumik s people come together to reinvent fire harness what remains of their life sustaining ice and reinvigorate their traditions of solidarity in time to save themselves Can the rest of us rise to the same challenge Fire and Ice connects these questions with the work of enterprising scientists engineers entrepreneurs and activists around the world in a narrative that combines mythology reason humor persistence and hope in a race against a global clock

Federal Register ,2012-09 The World of UCL Negley Harte, John North, Georgina Brewis, 2018-05-21 From its foundation in 1826 UCL embraced a progressive and pioneering spirit It was the first university in England to admit students regardless of religion and made higher education affordable and accessible to a much broader section of society It was also effectively the first university to welcome women on equal terms with men From the outset UCL showed a commitment to innovative ideas and new methods of teaching and research This book charts the history of UCL from 1826 through to the present day highlighting its many contributions to society in Britain and around the world It covers the expansion of the university through the growth in student numbers and institutional mergers It documents shifts in governance throughout the years and the changing social and economic context in which UCL operated including challenging periods of reconstruction after two World Wars Today UCL is one of the powerhouses of

research and teaching and a truly global university It is currently seventh in the QS World University Rankings This completely revised and updated edition features a new chapter based on interviews with key individuals at UCL It comes at a time of ambitious development for UCL with the establishment of an entirely new campus in East London UCL East and Provost Michael Arthur's UCL 2034 strategy which aims to secure the university's long term future and commits UCL to delivering global impact

Arctic Ice Shelves and Ice Islands Luke Copland, Derek Mueller, 2017-05-30 This book provides an overview of the current state of knowledge of Arctic ice shelves ice islands and related features Ice shelves are permanent areas of ice which float on the ocean surface while attached to the coast and typically occur in very cold environments where perennial sea ice builds up to great thickness and or where glaciers flow off the land and are preserved on the ocean surface These landscape features are relatively poorly studied in the Arctic yet they are potentially highly sensitive indicators of climate change because they respond to changes in atmospheric oceanic and glaciological conditions Recent fracturing and breakup events of ice shelves in the Canadian High Arctic have attracted significant scientific and public attention and produced large ice islands which may pose a risk to Arctic shipping and offshore infrastructure Much has been published about Antarctic ice shelves but to date there has not been a dedicated book about Arctic ice shelves or ice islands This book fills that gap

Sustainability Assessments of Buildings Umberto Berardi, 2018-07-06 This book is a printed edition of the Special Issue Sustainability Assessments of Buildings that was published in Sustainability

Thawing Permafrost J. van Huissteden, 2020-01-01 This book provides a cross disciplinary overview of permafrost and the carbon cycle by providing an introduction into the geographical distribution of permafrost with a focus on the distribution of permafrost and its soil carbon reservoirs The chapters explain the basic physical properties and processes of permafrost soils ice mineral and organic components and how these interact with climate vegetation and geomorphological processes In particular the book covers the role of the large quantities of ice in many permafrost soils which are crucial to understanding carbon cycle processes An explanation is given on how permafrost becomes loaded with ice and carbon Gas hydrates are also introduced Structures and processes formed by the intense freeze thaw action in the active layer are considered e g ice wedging cryoturbation and the processes that occur as the permafrost thaws pond and lake formation erosion The book introduces soil carbon accumulation and decomposition mechanisms and how these are modified in a permafrost environment A separate chapter deals with deep permafrost carbon gas reservoirs and recently discovered methane emission phenomena from regions such as Northwest Siberia and the Siberian yedoma permafrost

Climate by Proxy Melissa Charenko, 2025-11-05 How twentieth century scientists used proxies to understand historic climates shaping scientific analyses of the past and the future Unlike our daily reckoning with the weather our experience of climate must be mediated through methods that measure the ebb and flow of climate such as computer models instruments like thermometers and organic and inorganic remains known as proxies *Climate by Proxy* by Melissa Charenko explores how scientists read the

record of past climates and how their readings have engendered particular understandings of climate Charenko focuses on the twentieth century a period when scientists in Europe and North America began to believe that climate had a dynamic history worth studying Scientists in this period developed several techniques to infer past climate from fossil pollen tree rings pieces of vegetation and other organic remains imprinted upon by former climates Climate by Proxy examines how these techniques helped shape notions of climate itself Charenko also shows how these varied interpretations of climate played an outsized role in explanations of human history and destiny Geologists botanists ecologists and other scientists interested in climate over long timescales routinely discussed how climate influenced plants animals and notably people By following the scientists who reconstructed climate using natural archives Climate by Proxy demonstrates how material objects worked with scientists perceptions of human groups to compel constrain and reinforce their understandings of climate history and the future

High Performance Computing in Science and Engineering Tomáš Kozubek, Peter Arbenz, Jiří Jaroš, Lubomír Říha, Jakub Šístek, Petr Tichý, 2021-01-07 This book constitutes the thoroughly refereed post conference proceedings of the 4th International Conference on High Performance Computing in Science and Engineering HPCSE 2019 held in Karolinka Czech Republic in May 2019 The 9 papers presented in this volume were carefully reviewed and selected from 13 submissions The conference provides an international forum for exchanging ideas among researchers involved in scientific and parallel computing including theory and applications as well as applied and computational mathematics The focus of HPCSE 2019 was on models algorithms and software tools that facilitate efficient and convenient utilization of modern parallel and distributed computing architectures as well as on large scale applications

Stranded Assets and the Environment Ben Caldecott, 2018-05-11 Drawing on the work of leading researchers and practitioners from a range of disciplines including economic geography economics economic history finance law and public policy this edited collection provides a comprehensive assessment of stranded assets and the environment covering the fundamental issues and debates including climate change and societal responses to environmental change as well as its origins and theoretical basis The volume provides much needed clarity as the discourse on stranded assets gathers further momentum In addition to drawing on scholarly contributions there are chapters from practitioners and analysts to provide a range of critical perspectives While chapters have been written as important standalone contributions the book is intended to systematically take the reader through the key dimensions of stranded assets as a topic of research inquiry and practice The work adopts a broad based social science perspective for setting out what stranded assets are why they are relevant and how they might inform the decision making of firms investors policymakers and regulators The topic of stranded assets is inherently multi disciplinary cross sectoral and multi jurisdictional and the volume reflects this diversity This book will be of great relevance to scholars practitioners and policymakers with an interest in include economics business and development studies climate policy and environmental studies in general

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