

- 2 Fig. 2.1 shows a wooden trolley of mass 1.2 kg at rest on the rough surface of a bench.



Fig. 2.1

A ball of mass 0.52 g travels horizontally towards the trolley. The ball embeds itself in the wood of the trolley. The trolley moves with an initial speed of 0.065 m/s .

- (a) Calculate:

- (i) the impulse exerted on the trolley

impulse = [2]

- (ii) the speed of the ball as it hits the trolley.

speed = [2]

- (b) As the trolley moves across the rough surface, it slows down and stops.

Explain, in terms of the work done, the energy change that takes place as the trolley slows down.

.....

 [3]

[Total: 7]

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The Nano-Micro Interface Marcel Van de Voorde, Matthias Werner, Hans-Jörg Fecht, 2015-01-08 Controlling the properties of materials by modifying their composition and by manipulating the arrangement of atoms and molecules is a dream that can be achieved by nanotechnology As one of the fastest developing and innovative as well as well funded fields in science nanotechnology has already significantly changed the research landscape in chemistry materials science and physics with numerous applications in consumer products such as sunscreens and water repellent clothes It is also thanks to this multidisciplinary field that flat panel displays highly efficient solar cells and new biological imaging techniques have become reality This second enlarged edition has been fully updated to address the rapid progress made within this field in recent years Internationally recognized experts provide comprehensive first hand information resulting in an overview of the entire nano micro world In so doing they cover aspects of funding and commercialization the manufacture and future applications of nanomaterials the fundamentals of nanostructures leading to macroscale objects as well as the ongoing miniaturization toward the nanoscale domain Along the way the authors explain the effects occurring at the nanoscale and the nanotechnological characterization techniques An additional topic on the role of nanotechnology in energy and mobility covers the challenge of developing materials and devices such as electrodes and membrane materials for fuel cells and catalysts for sustainable transportation Also new to this edition are the latest figures for funding investments and commercialization prospects as well as recent research programs and organizations

The Nano-Micro Interface, 2 Volumes Marcel Van de Voorde, Matthias Werner, Hans-Jörg Fecht, 2015-03-09 Controlling the properties of materials by modifying their composition and by manipulating the arrangement of atoms and molecules is a dream that can be achieved by nanotechnology As one of the fastest developing and innovative as well as well funded fields in science nanotechnology has already significantly changed the research landscape in chemistry materials science and physics with numerous applications in consumer products such as sunscreens and water repellent clothes It is also thanks to this multidisciplinary field that flat panel displays highly efficient solar cells and new biological imaging techniques have become reality This second enlarged edition has been fully updated to address the rapid progress made within this field in recent years Internationally recognized experts provide comprehensive first hand information resulting in an overview of the entire nano micro world In so doing they cover aspects of funding and commercialization the manufacture and future applications of nanomaterials the fundamentals of nanostructures leading to macroscale objects as well as the ongoing miniaturization toward the nanoscale domain Along the way the authors explain the effects occurring at the nanoscale and the nanotechnological characterization techniques An additional topic on the role of nanotechnology in energy and mobility covers the challenge of developing materials and devices such as electrodes and membrane materials for fuel cells and catalysts for sustainable transportation Also new to this edition are the latest figures for funding investments and

commercialization prospects as well as recent research programs and organizations Bihar and Mithila J. Albert Rorabacher, 2016-09-13 The struggling states of Bihar and Mithila serve as extreme examples of India's problems. Development here has been thwarted by a hereditary landed aristocracy supported by religion, casteism, custom, social stratification, tradition, and patterns of behaviour that can be traced back millennia. In turn, all these have been masterfully manipulated by co-opted politicians who have turned politics into a veritable art form as this volume comprehensively demonstrates. Please note: Taylor Francis does not sell or distribute the Hardback in India, Pakistan, Afghanistan, Nepal, Bhutan, Bangladesh, and Sri Lanka. *The Caliphate at War* Ahmed Hashim, 2018-02-01 ISIS's astonishing and unexpected military victories in 2014 and 2015 redrew the geopolitical map of the Middle East. Media attention focused on the organisation's savage treatment of its enemies and its ability to attract foreign fighters, but as this dispassionate book demonstrates, it also made important innovations in strategy, ideology, and governance. Ahmed S. Hashim argues that by focusing their ideology first and foremost on extreme anti-Shia sectarianism rather than on Western infidels, ISIS founders were able to present themselves as the saviours of what they saw as the embattled Sunni nation in Iraq. This enabled them to win the support of Sunni communities. Moreover, ISIS's stunning ability to take major cities was a result of its innovative tactics. It sowed terror in advance of its attacks by using targeted assassinations to kill key city leaders, and its decentralised regional command structure facilitated an unusual degree of coordination between small assault units. At the same time, the organisation made a serious effort to engage in state building and population control. By going beyond the often starkly unpleasant current affairs of the Islamic State, *The Caliphate at War* undertakes an essential investigation into the successes of the group to better understand how the movement has survived, thrived, and reshaped the Middle East. *The SAGE Handbook of Research in International Education* Mary Hayden, Jack Levy, Jeff Thompson, 2015-10-13 The landscape of international education has changed significantly in the last ten years, and our understanding of concepts such as international, global, and multicultural are being re-evaluated. Fully updated and revised, and now including new contributions from research in South East Asia, the Middle East, China, Japan, Australasia, and North America, the new edition of this handbook analyses the origins, interpretations, and contributions of international education and explores key contemporary developments, including internationalism in the context of teaching and learning, leadership standards, and quality in institutions and systems of education, the promotion of internationalism in national systems. This important collection of research is an essential resource for anyone involved in the practice and academic study of international education, including researchers and teachers in universities, governmental and private curriculum development agencies, examination authorities, administrators, and teachers in schools. **6 YEAR-WISE Solved Papers - Intelligence Bureau Assistant Central Intelligence Officer Grade-II/ Executive (Tier-I) Exam** Disha Experts, 2021-02-04 7 YEAR-WISE Solved Papers - Intelligence Bureau Assistant Central Intelligence Officer Grade-II/ Executive (Tier-I) Exam 2nd Edition Disha Experts, 2022-05-11 7 YEAR WISE Intelligence Bureau Assistant Central

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Eating Earth Lisa Kemmerer,2015 An examination of human dietary choice as a unifying cause for both the environmental and animal rights movements **Hope in Hell** Jonathon Porritt,2021-04-06 A book for facing head on and averting the oncoming global climate change disaster by inspiring people to move from general concern and passive support to active protagonists for change Climate change is our era s defining issue We know beyond reasonable doubt that climate change is accelerating To face a challenge greater than humanity has ever seen before we must also accelerate ourselves by summoning a sense of urgency courage and shared effort to match it Jonathan Porritt s Hope In Hell is meant to do just that by confronting the issue directly and strongly but also with inspiration and hope it s not too late to avoid the worst consequences of climate change Ultimately optimistic despite the dire challenge presented to the world Porritt explores current science and new technologies mobilization of younger people and political action and encouraging intergenerational solidarity as older generations learn their own responsibilities in creating a better world for their successors The ^ACaliphate at War Ahmed S. Hashim,2017-12-20 Innovation is key to military success as Ahmed S Hashim explains in his study of how Islamic State functions as a fighting social media and administrative entity **Measurement, Instrumentation, and Sensors Handbook** John G. Webster,Halit Eren,2017-12-19 The Second Edition of the bestselling Measurement Instrumentation and Sensors Handbook brings together all aspects of the design and implementation of measurement instrumentation and sensors Reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes Organized according to measurement problem the Electromagnetic Optical Radiation Chemical and Biomedical Measurement volume of the Second Edition Contains contributions from field experts new chapters and updates to all 98 existing chapters Covers sensors and sensor technology time and frequency signal processing displays and recorders and optical medical biomedical health environmental electrical electromagnetic and chemical variables A concise and useful reference for engineers scientists academic faculty students designers managers and industry professionals involved in instrumentation and measurement research and development Measurement Instrumentation and Sensors Handbook Second Edition Electromagnetic Optical Radiation Chemical and Biomedical Measurement provides readers with a greater understanding of advanced applications **Airborne Wind Energy** Roland Schmehl,2018-03-31 This book provides in depth coverage of the latest research and development activities concerning innovative wind energy technologies intended to replace fossil fuels on an economical basis A characteristic feature of the various conversion concepts discussed is the use of tethered flying devices to substantially reduce the material consumption

per installed unit and to access wind energy at higher altitudes where the wind is more consistent The introductory chapter describes the emergence and economic dimension of airborne wind energy Focusing on Fundamentals Modeling Simulation Part I includes six contributions that describe quasi steady as well as dynamic models and simulations of airborne wind energy systems or individual components Shifting the spotlight to Control Optimization Flight State Measurement Part II combines one chapter on measurement techniques with five chapters on control of kite and ground stations and two chapters on optimization Part III on Concept Design Analysis includes three chapters that present and analyze novel harvesting concepts as well as two chapters on system component design Part IV which centers on Implemented Concepts presents five chapters on established system concepts and one chapter about a subsystem for automatic launching and landing of kites In closing Part V focuses with four chapters on Technology Deployment related to market and financing strategies as well as on regulation and the environment The book builds on the success of the first volume Airborne Wind Energy Springer 2013 and offers a self contained reference guide for researchers scientists professionals and students The respective chapters were contributed by a broad variety of authors academics practicing engineers and inventors all of whom are experts in their respective fields

Energy-Efficient VCSELs for Optical Interconnects Philip Moser, 2015-10-06 This dissertation provides the first systematic analysis of the dynamic energy efficiency of vertical cavity surface emitting lasers VCSELs for optical interconnects a key technology to address the pressing ecological and economic issues of the exponentially growing energy consumption in data centers Energy efficient data communication is one of the most important fields in Green Photonics enabling higher bit rates at significantly reduced energy consumption per bit In this thesis the static and dynamic properties of GaAs based oxide confined VCSELs emitting at 850 nm and 980 nm are analyzed and general rules for achieving energy efficient data transmission using VCSELs at any wavelength are derived These rules are verified in data transmission experiments leading to record energy efficient data transmission across a wide range of multimode optical fiber distances and at high temperatures up to 85 C Important trade offs between energy efficiency temperature stability modulation bandwidth low current density operation and other VCSEL properties are revealed and discussed

Nuclear Renaissance William J. Nuttall, 2022-06-15 Nuclear power is low carbon and reliable but in recent years it has struggled to play a strong role in global plans for electricity generation in the 21st century Many of those involved with nuclear power and environmental agencies see controlled expansion of nuclear plants as the most environmentally friendly way of meeting growing energy demands In the UK policy makers must recognise concerns around severe accidents and radioactive wastes and balance these against the risks arising from other energy technologies In addition energy policy makers must ensure that energy supplies remain affordable for all in society How might new nuclear power stations help meet emerging policy needs This second edition of Nuclear Renaissance Technologies and Policies for the Future of Nuclear Power continues to examine the future of nuclear power in the contexts of economics environmental sustainability and security of electricity supplies

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Connectography Parag Khanna, 2016-04-19 From the visionary bestselling author of *The Second World* and *How to Run the World* comes a bracing and authoritative guide to a future shaped less by national borders than by global supply chains a world in which the most connected powers and people will win Connectivity is the most revolutionary force of the twenty first century Mankind is reengineering the planet investing up to ten trillion dollars per year in transportation energy and communications infrastructure linking the world s burgeoning megacities together This has profound consequences for geopolitics economics demographics the environment and social identity Connectivity not geography is our destiny In *Connectography* visionary strategist Parag Khanna travels from Ukraine to Iran Mongolia to North Korea Pakistan to Nigeria and across the Arctic Circle and the South China Sea to explain the rapid and unprecedented changes affecting every part of the planet He shows how militaries are deployed to protect supply chains as much as borders and how nations are less at war over territory than engaged in tugs of war over pipelines railways shipping lanes and Internet cables The new arms race is to connect to the most markets a race China is now winning having launched a wave of infrastructure investments to unite Eurasia around its new Silk Roads The United States can only regain ground by fusing with its neighbors into a super continental North American Union of shared resources and prosperity *Connectography* offers a unique and hopeful vision for the future Khanna argues that new energy discoveries and technologies have eliminated the need for resource wars ambitious transport corridors and power grids are unscrambling Africa s fraught colonial borders even the Arab world is evolving a more peaceful map as it builds resource and trade routes across its war torn landscape At the same time thriving hubs such as Singapore and Dubai are injecting dynamism into young and heavily populated regions cyber communities empower commerce across vast distances and the world s ballooning financial assets are being wisely invested into building an inclusive global society Beneath the chaos of a world that appears to be falling apart is a new foundation of connectivity pulling it together Praise for *Connectography* Incredible With the world rapidly changing and urbanizing Khanna s proposals

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analysis of materials synthesis methods such as melt mixing ion implantation solution casting and electrospinning In addition it measures the X ray attenuation behaviour of fabricated composites and nanocomposites in four major types of X ray equipment namely general radiography mammography X ray absorption spectroscopy and X ray fluorescence spectroscopy units Given its scope the book will benefit researchers engineers scientists and practitioners in the fields of medical imaging diagnostic radiology and radiation therapy

The Entrepreneurial State Mariana Mazzucato, 2024-02-06 Award winning economist Mariana Mazzucato's famously incisive international bestseller debunking the pervasive myth of the inept state versus an innovative private sector with a new preface by the author According to conventional wisdom innovation is best left to the bold entrepreneurs of the private sector and government should get out of the way But what if that wasn't the case What if from the inventions of Silicon Valley to medical breakthroughs the public sector has actually been the most courageous and valuable risk taker of all Critically acclaimed and influential thinker and scholar Mariana Mazzucato argues comprehensively against the myth of a lumbering bureaucratic state versus a dynamic innovative private sector with remarkable original and deep research In a series of case studies from nanotechnology to the emerging green tech of today Mazzucato reveals that the opposite is true the private sector only finds the courage to invest after an entrepreneurial state has made the high risk investments *The Entrepreneurial State* reveals how every technology that makes the iPhone so smart was actually funded by the government from the Internet and GPS technology to touch screen displays and voice activated Siri In the history of modern capitalism the State has not only fixed market failures but has also actively shaped and created markets In doing so it sometimes wins and sometimes fails Yet by not admitting the State's role in active risk taking we've created an innovation system where the public sector socializes risks while privatizing reward as Mazzucato controversially argues This bold and provocative book considers how we adopted this dysfunctional dynamic and then how we can overcome it so that economic growth can be not only smart but inclusive as well

Fundamental Controls on Fluid Flow in Carbonates S.M. Agar, S. Geiger, 2015-02-02 This volume highlights key challenges for fluid flow prediction in carbonate reservoirs the approaches currently employed to address these challenges and developments in fundamental science and technology The papers span methods and case studies that highlight workflows and emerging technologies in the fields of geology geophysics petrophysics reservoir modelling and computer science Topics include detailed pore scale studies that explore fundamental processes and applications of imaging and flow modelling at the pore scale case studies of diagenetic processes with complementary perspectives from reactive transport modelling novel methods for rock typing petrophysical studies that investigate the impact of diagenesis and fault rock properties on acoustic signatures mechanical modelling and seismic imaging of faults in carbonate rocks modelling geological influences on seismic anisotropy novel approaches to geological modelling methods to represent key geological details in reservoir simulations and advances in computer visualization analytics and interactions for geoscience and engineering

Natural and Human-Induced Hazards and Disasters in Africa

Simelane, Thokozani, 2019-02-25 Natural and human induced environmental hazards are becoming increasingly prominent. The frequency of recorded natural disasters rose markedly during the last century from about 100 per in the years up to 1940 to nearly 2800 during the 1990s. Africa is the only continent whose share of reported disasters has increased over the past decade. Several factors contribute to Africa's high vulnerability to disasters. These include the high rate of population growth, food insecurity, high levels of poverty, inappropriate use of natural resources and failures of policy and institutional frameworks. Despite the huge negative impact of natural and human induced hazards on Africa's development, little is done to prevent them. Disaster prevention contributes to lasting improvement in safety and sustainable livelihoods and is essential as part of integrated disaster management strategies. The provision of effective scientific input to policy formulation on various issues related to hazards and disasters is an ambitious undertaking. It requires the collaborative effort of the African scientific community to develop comprehensive long term strategies and human capacity building initiatives that will enable science to benefit society. This will further require:

- a Building strong research and training institutions in Africa at national and regional levels
- b Facilitating the exchange of scientific information and sharing of ideas across borders
- c Strengthening the link between scientific research and policy making
- d Promoting outreach activities to build resilience to disaster risk and
- e Tapping the knowledge base of rural and urban communities.

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the router central isp cluster and the web server are completely configured you must create a new ipv4 addressing scheme

that will accommodate 4 subnets using the 192.168.0.0/24 network the IT department requires 25 hosts the sales department needs 50 hosts the subnet for the rest of the staff see more

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