

ENGINEERING SCIENCE N4 TUTORIAL ASSIGNMENT

1.1. Two vehicles move simultaneously, vehicle P moves at 220 km/h east while vehicle Q moves at 220 km/h in a direction $W30^\circ N$. Calculate the velocity of vehicle P relative to Q. (4)

1.2. Various options are given as possible answers to the following questions. Choose the answer and write only the letter (A–D) next to the question number (3.1–3.4) in the ANSWER BOOK.

The minute arm of a tower clock is 1,8 m long. It took 35 minutes to move from 2 to 9.

1.2.1 The angular displacement of the minute arm is ...
A 2,345 rad.
B 3,665 rad.
C 3,345 rad.
D 2,665 rad.

1.2.2 The arc length produced by the tip of the minute arm is ...
A 4,835 m.
B 5,524 m.
C 6,597 m.
D 4,524 m.

1.2.3 The angular velocity of the minute arm is ...
A $2,327 \times 10^{-3}$ m.
B $1,745 \times 10^{-3}$ m.
C $2,117 \times 10^{-3}$ m.
D $1,227 \times 10^{-3}$ m.

1.2.4 The linear velocity/tangential velocity of the minute arm is:
A $2,447 \times 10^{-3}$ m/s.
B $4,189 \times 10^{-3}$ m/s.
C $4,447 \times 10^{-3}$ m/s.
D $3,141 \times 10^{-3}$ m/s.

(4 × 2)

[8]

1.3.A priest is in a rested motorcar, with a mass of 780 kg, at the top of a slope of 80%. When he releases the brakes of the motorcar, it moves freely down for 25 m due to gravitational force to the bottom of the slope and then immediately onto a horizontal road until it comes to a rest at the bottom of the slope. Calculate the following:

1.3.1 The velocity of the motorcar at the bottom of the slope. (3)

1.3.2 The deceleration of the motorcar on the horizontal road, if it took 12 seconds to travel on the horizontal road. (2)

1.3.3 What is the kinetic energy of the motorcar after 12 seconds on the horizontal road? (1)

1.4. The plunger of a hydraulic press has a diameter of 90 mm with a stroke length of 480 mm while the diameter of the ram is 180 mm. The mechanical advantage of the plunger is 18. Calculate:

1.4.1 The force to be applied to the lever to lift a load of 4,2 Mg if efficiency is 96% (5)

1.4.2 The number of the pumping strokes needed to lift the load of 220 mm at efficiency of 96%. [4]

1.5. The plunger of a two-cylinder pump has a diameter of 150 mm and a stroke length of 250 mm. Calculate:

1.5.1 The volume delivered in l/s. (4)

1.5.2 The slip% if the volume delivered is 16,789 l/s. (2)

TUTORIAL 2

2.1. A stone is thrown at a velocity of 29 m/s at an angle of 35° to the horizontal.

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BM King



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Top Vol 30-N4 Teacher Education and Practice, 2017-12-20 Teacher Education and Practice a peer refereed journal is dedicated to the encouragement and the dissemination of research and scholarship related to professional education The journal is concerned in the broadest sense with teacher preparation practice and policy issues related to the teaching profession as well as being concerned with learning in the school setting The journal also serves as a forum for the exchange of diverse ideas and points of view within these purposes As a forum the journal offers a public space in which to critically examine current discourse and practice as well as engage in generative dialogue Alternative forms of inquiry and representation are invited and authors from a variety of backgrounds and diverse perspectives are encouraged to contribute Teacher Education Practice is published by Rowman Littlefield *Engineering Technology, Engineering Education and Engineering Management* Deyao Tan, 2015-06-25 This volume contains papers presented at the International Conference on Engineering Technologies Engineering Education and Engineering Management ETEEEM 2014 Hong Kong 15 16 November 2014 A wide variety of topics is included in the book Engineering Education Education Engineering and Technology Methods and Learning Mechanism **Empowering Science and Mathematics for Global Competitiveness** Yuli Rahmawati, Peter Charles Taylor, 2019-06-07 This conference proceedings focuses on enabling science and mathematics practitioners and citizens to respond to the pressing challenges of global competitiveness and sustainable development by transforming research and teaching of science and mathematics The proceedings consist of 82 papers presented at the Science and Mathematics International Conference SMIC 2018 organised by the Faculty of Mathematics and Natural Sciences Universitas Negeri Jakarta Indonesia The proceedings are organised in four parts Science Science Education Mathematics and Mathematics Education The papers contribute to our understanding of important contemporary issues in science especially nanotechnology materials and environmental science science education in particular environmental sustainability STEM and STEAM education 21st century skills technology education and green chemistry and mathematics and its application in statistics computer science and mathematics education **JSL Vol 28-N4** JOURNAL OF SCHOOL LEADERSHIP, 2018-06-22 The Journal of School Leadership is broadening the conversation about schools and leadership and is currently accepting manuscripts We welcome manuscripts based on cutting edge research from a wide variety of theoretical perspectives and methodological orientations The editorial team is particularly interested in working with international authors authors from traditionally marginalized populations and in work that is relevant to practitioners around the world Growing numbers of educators and professors look to the six bimonthly issues to deal with problems directly related to contemporary school leadership practice teach courses on school leadership and policy use as a quality reference in writing articles about school leadership and improvement [Geographic Index of Environmental Articles](#), 1994

Blueprint for a Battlestar Rod Pyle, 2016-09-01 An enjoyable source of information on a wide variety of real or

imagined technological marvels of the space age National Space Society This beautifully illustrated pop science book answers the enduring questions raised by science fiction such as Do hoverboards really exist how can you bring a dinosaur back to life and can we really travel in time and space Packed with stunning images including seventy five illustrations created exclusively for this book Blueprint for a Battlestar takes twenty five remarkable and memorable technologies from the world of sci fi from Star Wars and The Matrix to Ironman and The Terminator Each concept will be explained and dissected to reveal the real science behind it Some are boldly obvious such as the Death Star and exoskeletons and some less so think bio ports or cloaking devices All are fascinating and will make wonderful explorations into the science of the future as we understand it today This is dream fuel for aspiring STEM students of all sorts Blueprint for a Battlestar is a gateway drug for brainstorming that could change the world Seattle Book Review Will take readers on a fact finding mission where the science is explained and the fiction just may become reality Can it really work For the sake of all those young engineers out there dreaming of a future filled with massive battlestars stretching far across the galaxy we can only hope Amazing Stories Magazine A fun book that offers serious exploration of some of the technology that could be common place in the not too distant future The Review Graveyard [Intelligence Science and Big Data Engineering](#) Yuxin Peng,Kai Yu,Jiwen Lu,Xingpeng Jiang,2018-11-08 This book constitutes the proceedings of the 8th International Conference on Intelligence Science and Big DataEngineering IScIDE 2018 held in Lanzhou China in August 2018 The 59 full papers presented in this book were carefully reviewed and selected from 121 submissions They are grouped in topical sections on robots and intelligent systems statistics and learning deep learning objects and language classification and clustering imaging and biomedical signal processing **Computers Supported Education** Paula Escudeiro,Gennaro Costagliola,Susan Zvacek,James Uhomoibhi,Bruce M. McLaren,2018-07-24 This book constitutes the thoroughly refereed proceedings of the 9th International Conference on Computer Supported Education CSEDU 2017 held in Porto Portugal in April 2017 The 22 revised full papers were carefully reviewed and selected from 179 submissions The papers deal with the following topics new educational environments best practices and case studies of innovative technology based learning strategies institutional policies on computer supported education including open and distance education [Index to IEEE Publications](#) Institute of Electrical and Electronics Engineers,1980 Issues for 1973 cover the entire IEEE technical literature [The Handbook of International Trends in Environmental Communication](#) Bruno Takahashi,Julia Metag,Jagadish Thaker,Suzannah Evans Comfort,2021-12-27 This handbook provides a comprehensive review of communication around rising global environmental challenges and public action to manage them now and into the future Bringing together theoretical methodological and practical chapters this book presents a unique opportunity for environmental communication scholars to critically reflect on the past examine present trends and start envisioning exciting new methodologies theories and areas of research Chapters feature authors from a wide range of countries to critically review the genesis and evolution of environmental communication

research and thus analyze current issues in the field from a truly international perspective incorporating diverse epistemological perspectives exciting new methodologies and interdisciplinary theoretical frameworks The handbook seeks to challenge existing dominant perspectives of environmental communication from and about populations in the Global South and disenfranchised populations in the Global North The Handbook of International Trends in Environmental Communication is ideal for scholars and advanced students of communication sustainability strategic communication media environmental studies and politics

Curriculum Leadership by Middle Leaders Kelvin Heng Kiat Tan, Mary Anne Heng, Christina Lim-Ratnam, 2016-08-12 Curriculum Leadership by Middle Leaders focusses on major issues relating to the continuing national and international discourse on curriculum leadership and highlights the vital role of middle leaders in schools School leadership has focused primarily on first order change involving school leaders or principals This book seeks to put the spotlight on second order change that involves curriculum leadership and professional development support on the part of middle leaders for more sustainable and long term change in teaching and learning that will influence what happens in classrooms With timely and thought provoking contribution from authors who pursue a range of scholarly interests in multiple educational settings the book is guided by several underlying questions How might we re envision curriculum leadership so that it addresses both local and global concerns and aspirations How might we better grasp how middle leaders understand and respond to the pressures of educational reform initiatives How might middle leaders transform pressures into possibilities This book will appeal to current teachers those currently undertaking teacher training and students or academics carrying out research in the field of educational leadership

Agile and Lean Concepts for Teaching and Learning David Parsons, Kathryn MacCallum, 2018-10-24 This book explores the application of agile and lean techniques originally from the field of software development and manufacturing to various aspects of education It covers a broad range of topics including applying agile teaching and learning techniques in the classroom incorporating lean thinking in educational workflows and using team based approaches to student centred activities based on agile principles and processes Demonstrating how agile and lean ideas can concretely be applied to education the book offers practical guidance on how to apply these ideas in the classroom or lecture hall as well as new concepts that could spark further research and development

Methods in computational genomics Nathan Olson, Lei Chen, 2024-02-06 **Reference Sources, 1981** S. Balachandran, M. Balachandran, 1992-03

Computational Science and Its Applications - ICCSA 2018 Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Elena Stankova, Carmelo M. Torre, Ana Maria A.C. Rocha, David Taniar, Bernady O. Apduhan, Eufemia Tarantino, Yeonseung Ryu, 2018-07-03 The five volume set LNCS 10960 until 10964 constitutes the refereed proceedings of the 18th International Conference on Computational Science and Its Applications ICCSA 2018 held in Melbourne Australia in July 2018 Apart from the general tracks ICCSA 2018 also includes 34 international workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational

sciences such as computer graphics and virtual reality The total of 265 full papers and 10 short papers presented in the 5 volume proceedings set of ICCSA 2018 were carefully reviewed and selected from 892 submissions The paper Nitrogen Gas on Graphene Pairwise Interaction Potentials is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

Solar Fuel Generation Yatendra S. Chaudhary, 2017-01-20 As the search for renewable sources of energy grows more urgent more and more attention is focusing on the blueprint offered by biological photosynthesis for translating the energy of our Sun into energy rich molecules like H₂ and carbohydrates commonly known as solar fuels These solar fuels have enormous potential to store high densities of energy in the form of chemical bonds as well as being transportable This book offers a complete overview of the promising approaches to solar fuel generation including the direct pathways of solar H₂ generation and CO₂ photocatalytic reduction *Solar Fuel Generation* is an invaluable tool for graduate students and researchers especially chemists physicists and material scientists working in this field

Handbook of Research on Applied Data Science and Artificial Intelligence in Business and Industry Chkoniya, Valentina, 2021-06-25 The contemporary world lives on the data produced at an unprecedented speed through social networks and the internet of things IoT Data has been called the new global currency and its rise is transforming entire industries providing a wealth of opportunities Applied data science research is necessary to derive useful information from big data for the effective and efficient utilization to solve real world problems A broad analytical set allied with strong business logic is fundamental in today's corporations Organizations work to obtain competitive advantage by analyzing the data produced within and outside their organizational limits to support their decision making processes This book aims to provide an overview of the concepts tools and techniques behind the fields of data science and artificial intelligence AI applied to business and industries The Handbook of Research on Applied Data Science and Artificial Intelligence in Business and Industry discusses all stages of data science to AI and their application to real problems across industries from science and engineering to academia and commerce This book brings together practice and science to build successful data solutions showing how to uncover hidden patterns and leverage them to improve all aspects of business performance by making sense of data from both web and offline environments Covering topics including applied AI consumer behavior analytics and machine learning this text is essential for data scientists IT specialists managers executives software and computer engineers researchers practitioners academicians and students

Nanooptics and Photonics, Nanochemistry and Nanobiotechnology, and Their Applications Olena Fesenko, Leonid Yatsenko, 2020-11-23 This book highlights some of the latest advances in nanotechnology and nanomaterials from leading researchers in Ukraine Europe and beyond It features contributions presented at the 7th International Science and Practice Conference Nanotechnology and Nanomaterials NANO2019 which was held on August 27-30 2019 at Lviv Polytechnic National University and was jointly organized by the Institute of Physics of the National Academy of Sciences of Ukraine University of Tartu Estonia University of Turin Italy and Pierre and Marie

Curie University France Internationally recognized experts from a wide range of universities and research institutions share their knowledge and key findings on material properties behavior and synthesis This book s companion volume also addresses topics such as nano optics energy storage and biomedical applications **STEM in Science Education and S in STEM** ,2021-01-11 This book presents an international perspective of the influence of cultural issues on STEM reform Effective STEM education is of considerable importance internationally because there is increase pressure by governments to produce technically skilled people from the compulsory education sectors people capable of participating actively in the so called knowledge economy or knowledge society An important and distinguishing feature of the book is that it draws upon the empirical experiences and research of the local experts from an extremely diverse cohort across the world Contributors are Nayif Awad David Barlex Alexandra Bazdar Saouma BouJaoude Heba EL Deghaidy Marwa Eltanahy Sibel Erduran Sufian Forawi Clare Gartland Lilia Halim Ying Shao Hsu Zanaton Haji Iksan Deena Khalil Meredith Kier Nasser Mansour Mohamad Sattar Rasul Seema Rivera Dalene Swanson Paige Teamey Tuan Mastura Tuan Soh Russell Tytler No l Williams and Yi Fen Yeh **Plasma and Spot Phenomena in Electrical Arcs** Isak Beilis,2020-09-05 This book is devoted to a thorough investigation of the physics and applications of the vacuum arc a highly ionized metallic plasma source used in a number of applications with emphasis on cathode spot phenomena and plasma formation The goal is to understand the origins and behavior of the various complex and sometimes mysterious phenomena involved in arc formation such as cathode spots electrode vaporization and near electrode plasma formation The book takes the reader from a model of dense cathode plasma based on charge exchange ion atom collisions through a kinetic approach to cathode vaporization and on to metal thermophysical properties of cathodes This picture is further enhanced by an in depth study of cathode jets and plasma acceleration the effects of magnetic fields on cathode spot behavior and electrical characteristics of arcs and cathode spot dynamics The book also describes applications to space propulsion thin film deposition laser plasma generation and magnetohydrodynamics making this comprehensive and up to date volume a valuable resource for researchers in academia and industry

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