

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.

Engineering Science 2014 November Examination N4

Judd E. Hollander



Engineering Science 2014 November Examination N4:

High Resolution Characterization of Corrosion Process 4 H. McMurray,K. Zavadil,N. Casillas,2015-04-30

Production Management and Engineering Sciences Milan Majerník,Naqib Daneshjo,Martin Bosák,2015-11-09 These are the proceedings of the International Conference on Engineering Science and Production Management 16th 17th April 2015 Tatransktrba High Tatras Mountains Slovak Republic The proceedings contain articles focusing on Production Management Logistics Industrial development sustainable production Planning management and pr *ICPMG2014 - Physical Modelling in Geotechnics* Christophe Gaudin,David White,2019-01-08 The 8th International Conference on Physical Modelling in Geotechnics ICPMG2014 was organised by the Centre for Offshore Foundation Systems at the University of Western Australia under the auspices of the Technical Committee 104 for Physical Modelling in Geotechnics of the International Society of Soil Mechanics and Geotechnical Engineering This quadrennial conference is the traditional focal point for the physical modelling community of academics scientists and engineers to present and exchange the latest developments on a wide range of physical modelling aspects associated with geotechnical engineering These proceedings together with the seven previous proceedings dating from 1988 present an inestimable collection of the technical and scientific developments and breakthroughs established over the last 25 years These proceedings include 10 keynote lectures from scientific leaders within the physical modelling community and 160 peer reviewed papers from 26 countries They are organised in 14 themes presenting the latest developments in physical modelling technology modelling techniques and sensors through a wide range of soil structure interaction problems including shallow and deep foundations offshore geotechnics dams and embankments excavations and retaining structures and slope stability Fundamental aspects of earthquake engineering geohazards ground reinforcements and improvements and soil properties and behaviour are also covered demonstrating the increasing complexity of modelling arising from state of the art technological developments and increased understanding of similitude principles A special theme on education presents the latest developments in the use of physical modelling techniques for instructing undergraduate and postgraduate students in geotechnical engineering **ISTFA 2014** A. S. M. International,International Symposium for Testing and Failure Analysis,2014-11-01 This volume features the latest research and practical data from the premier event for the microelectronics failure analysis community The papers address the symposium s theme Exploring the Many Facets of Failure Analysis **Fabrication and Machining of Advanced Materials and Composites** Subhash Singh,Dinesh Kumar,2022-10-21 This reference text discusses processing structure and properties of metal matrix composites polymer matrix composites and ceramic matrix composites for applications in high end engineering equipment biomedical and nano biotechnology areas The text begins by discussing fundamentals classification designing and fabrication of composite materials followed by ultrasonic vibration assisted machining of advanced materials fabrication of transparent advanced composites fabrication of composites via microwave sintering and

hybrid machining of metal matrix composites It covers important topics including fabrication of shape memory polymers additive manufacturing for the fabrication of composites 3D printing processes for biomedical applications and ultrasonic vibration assisted machining of advanced materials The text will be useful for undergraduate graduate students and academic researchers in areas including materials science mechanical engineering manufacturing science aerospace engineering electronics and communication engineering The book Covers processing structure and properties of metal matrix composites polymer matrix composites and ceramic matrix composites Discusses nano materials and their potential applications in the area of biomedical and nano biotechnology Provides modern processing techniques to synthesize advance materials Explores applicability of the materials using mechanical chemical thermal and electrical tests Discussing advanced materials their manufacturing techniques and applications in diverse areas including automotive aerospace engineering biomedical this text will be useful for undergraduate graduate students and academic researchers in areas including materials science mechanical engineering manufacturing science aerospace engineering electronics and communication engineering It will further discuss electro discharge machining of steels using chromium alloy based electrodes and advanced machining techniques for hard materials

Intelligent Computing and Information and Communication

Subhash Bhalla,Vikrant Bhateja,Anjali A. Chandavale,Anil S. Hiwale,Suresh Chandra Satapathy,2018-01-19 The volume presents high quality research papers presented at Second International Conference on Information and Communication Technology for Intelligent Systems ICICC 2017 The conference was held during 2 4 August 2017 Pune India and organized communally by Dr Vishwanath Karad MIT World Peace University Pune India at MIT College of Engineering Pune and supported by All India Council for Technical Education AICTE and Council of Scientific and Industrial Research CSIR The volume contains research papers focused on ICT for intelligent computation communications and audio and video data processing

Mountain Movers Daniel M. Franks,2015-09-16 The products of mining are everywhere if it wasn t grown it was mined or drilled But the mining industry has a chequered past Pollution human rights abuses and corruption have tarnished the reputation of the industry across the globe Over a decade ago the major mining companies embraced the concept of sustainable and equitable development and embarked on an explicit process of reform but has the industry actually changed This book explores the dynamics of change making for sustainable development in the resources sector specifically the mining of mineral and energy resources The author recounts the stories and insights of over forty change makers both inside and outside the industry from anti mining activists to the professionals charged with the task of reform introducing the people who are moving an industry that moves mountains The book takes stock of what has worked and what has not analyzing the relative influence and dynamics of the key corporate civil society and government actors with a view to developing new approaches for improving environmental and social outcomes from mineral and energy development Illustrated with case studies from Angola Australia Brazil Canada Chile Colombia El Salvador Guinea Peru The Philippines Romania Sierra Leone South Africa

and The United States of America and brimming with the backstories to the major sustainability initiatives Mountain Movers reveals where progress has been made and where reform is still needed towards a more sustainable and equitable mining industry

System Level ESD Co-Design Charvaka Duvvury, Harald Gossner, 2017-05-05 An effective and cost efficient protection of electronic system against ESD stress pulses specified by IEC 61000 4 2 is paramount for any system design This pioneering book presents the collective knowledge of system designers and system testing experts and state of the art techniques for achieving efficient system level ESD protection with minimum impact on the system performance All categories of system failures ranging from hard to soft types are considered to review simulation and tool applications that can be used The principal focus of System Level ESD Co Design is defining and establishing the importance of co design efforts from both IC supplier and system builder perspectives ESD designers often face challenges in meeting customers system level ESD requirements and therefore a clear understanding of the techniques presented here will facilitate effective simulation approaches leading to better solutions without compromising system performance With contributions from Robert Ashton Jeffrey Dunnihoo Micheal Hopkins Pratik Maheshwari David Pomerence Wolfgang Reinprecht and Matti Usumaki readers benefit from hands on experience and in depth knowledge in topics ranging from ESD design and the physics of system ESD phenomena to tools and techniques to address soft failures and strategies to design ESD robust systems that include mobile and automotive applications The first dedicated resource to system level ESD co design this is an essential reference for industry ESD designers system builders IC suppliers and customers and also Original Equipment Manufacturers OEMs Key features Clarifies the concept of system level ESD protection Introduces a co design approach for ESD robust systems Details soft and hard ESD fail mechanisms Detailed protection strategies for both mobile and automotive applications Explains simulation tools and methodology for system level ESD co design and overviews available test methods and standards Highlights economic benefits of system ESD co design

Understanding the Educational and Career Pathways of Engineers National Academy of Engineering, Committee on Understanding the Engineering Education-Workforce Continuum, 2019-01-26 Engineering skills and knowledge are foundational to technological innovation and development that drive long term economic growth and help solve societal challenges Therefore to ensure national competitiveness and quality of life it is important to understand and to continuously adapt and improve the educational and career pathways of engineers in the United States To gather this understanding it is necessary to study the people with the engineering skills and knowledge as well as the evolving system of institutions policies markets people and other resources that together prepare deploy and replenish the nation s engineering workforce This report explores the characteristics and career choices of engineering graduates particularly those with a BS or MS degree who constitute the vast majority of degreed engineers as well as the characteristics of those with non engineering degrees who are employed as engineers in the United States It provides insight into their educational and career pathways and related decision making the forces that

influence their decisions and the implications for major elements of engineering education to workforce pathways

Blockchain Technology Sonali Vyas, Vinod Kumar Shukla, Shaurya Gupta, Ajay Prasad, 2022-04-19 This book is for anyone who wants to gain an understanding of Blockchain technology and its potential The book is research oriented and covers different verticals of Blockchain technology It discusses the characteristics and features of Blockchain includes techniques challenges and future trends along with case studies for deeper understanding Blockchain Technology Exploring Opportunities Challenges and Applications covers the core concepts related to Blockchain technology starting from scratch The algorithms concepts and application areas are discussed according to current market trends and industry needs It presents different application areas of industry and academia and discusses the characteristics and features of this technology It also explores the challenges and future trends and provides an understanding of new opportunities This book is for anyone at the beginner to intermediate level that wants to learn about the core concepts related to Blockchain technology

Artificial Intelligence and Industry 4.0 Aboul Ella Hassanien, Jyotir Moy Chatterjee, Vishal Jain, 2022-08-14 Artificial Intelligence and Industry 4.0 explores recent advancements in blockchain technology and artificial intelligence AI as well as their crucial impacts on realizing Industry 4.0 goals The book explores AI applications in industry including Internet of Things IoT and Industrial Internet of Things IIoT technology Chapters explore how AI machine learning smart cities healthcare Society 5.0 etc have numerous potential applications in the Industry 4.0 era This book is a useful resource for researchers and graduate students in computer science researching and developing AI and the IIoT Explores artificial intelligence applications within the industrial manufacturing and communications sectors Presents a wide range of machine learning computer vision and digital twin applications across the IoT sector Explores how deep learning and cognitive computing tools enable processing vast data sets precise and comprehensive forecast of risks and delivering recommended actions

Digital India Arpan Kumar Kar, Shuchi Sinha, M. P. Gupta, 2018-06-14 This book offers a multidisciplinary resource on digital government while specifically focusing on its role within the emerging market of India The Government of India GoI is concentrating on transforming India under the Digital India initiative In order to do so it has emphasized three core areas 1 Computing infrastructure as a utility to every citizen 2 Governance and services on demand and 3 Digital empowerment of citizens The chapters in this book address issues surrounding these areas highlighting concepts such as knowledge societies urban operations and logistics issues in managing emergent Information Communication Technologies ICTs and also smart analytics for urbanization The chapters contribute to the theory practice and policy for a Digital India The book captures lessons knowledge experiences about challenges drivers antecedents etc and best practices emerging from implementation of various projects While the book is dedicated to a Digital India this book can also be valuable resource for public administrators government officials and researchers in other emerging markets and developing countries in Asia Africa and Latin America where similar socio political and economic conditions exist

STEM, Robotics, Mobile Apps in

Early Childhood and Primary Education Stamatios Papadakis, Michail Kalogiannakis, 2022-04-21 This book brings together a collection of work from around the world in order to consider effective STEM robotics mobile apps education from a range of perspectives. It presents valuable perspectives both practical and theoretical that enrich the current STEM robotics mobile apps education agenda. As such, the book makes a substantial contribution to the literature and outlines the key challenges in research policy and practice for STEM education from early childhood through to the first school age education. The audience for the book includes college students, teachers of young children, college and university faculty, and professionals from fields other than education who are unified by their commitment to the care and education of young children. **The**

technological process on Offshore Drilling Rigs Petrogav International Oil & Gas Training Center, 2020-07-02 This course covers aspects like HSE, Process, Mechanical, Electrical, and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview, Petrogav International has prepared this eBook that will help you to get a job in oil and gas industry. As a BONUS, this eBook contains web addresses to 309 video movies for a better understanding of the technological process and 205 web addresses to recruitment companies where you may apply for a job. Intermittent and Nonstationary Drying

Technologies Azharul Karim, Chung-Lim Law, 2017-09-18 The first comprehensive book on intermittent drying. *Intermittent and Nonstationary Drying: Principles and Applications* demonstrates the benefits of this process and covers key issues including technologies, effect of operating parameters, mathematical modelling, energy efficiency, and product quality. It discusses such topics as periodic drying, conventional and intermittent food drying processes, and food quality relationship among intermittency of drying, microstructural changes, and food quality. Microwave-assisted, pulsed fluidized, and spouted bed drying and cellular level water distribution. Aimed at food engineers, chemical product engineers, pharmaceutical engineers, and technologists, plant design engineers, and researchers and students in these areas, this useful reference helps readers.

Doctoral Student Skills Christopher L. Pallas, 2022-09-06 *Doctoral Student Skills* offers a comprehensive overview of the key skills doctoral students need to succeed in their studies and prepare for academic and non-academic jobs. Revealing the often hidden rules of graduate school success, it guides students through challenges like selecting a research topic, choosing an advisor, preparing for conferences, publishing their work, and entering the job market. The book begins by explaining how to survey the job market and identify signifiers that will signal to future employers the student's suitability for a job. It then guides students to reflect on their own experiences and abilities to identify their areas of comparative advantage. Providing detailed instructions on how to acquire key signifiers including conference presentations, publications, grants, awards, and teaching experience, the volume prepares students for future professional success while teaching them how to leverage these activities to enhance their progress in their present studies. The book is designed to be used as a course text or for self-study.

Each chapter features reflective exercises that can be used individually or in small groups along with recommended readings and additional resources to enhance student learning Brick and Block Masonry Claudio Modena,F. da Porto,M.R. Valluzzi,2016-11-03 Brick and Block Masonry Trends Innovations and Challenges contains the lectures and regular papers presented at the 16th International Brick and Block Masonry Conference Padova Italy 26 30 June 2016 In an ever changing world in which innovations are rapidly implemented but soon surpassed the challenge for masonry the oldest and most traditional building material is that it can address the increasingly pressing requirements of quality of living safety and sustainability This abstracts volume and full paper USB device focusing on challenges innovations trends and ideas related to masonry in both research and building practice will prove to be a valuable source of information for researchers and practitioners masonry industries and building management authorities construction professionals and educators Design Recommendations for Intelligent Tutoring Systems: Volume 4 - Domain Modeling Robert A. Sottolare,Arthur C. Graesser,Xiangen Hu,Andrew Olney,Benjamin Nye,Anna M. Sinatra,2016-07-15 Design Recommendations for Intelligent Tutoring Systems ITs explores the impact of intelligent tutoring system design on education and training Specifically this volume examines Domain Modeling The Design Recommendations book series examines tools and methods to reduce the time and skill required to develop Intelligent Tutoring Systems with the goal of improving the Generalized Intelligent Framework for Tutoring GIFT GIFT is a modular service oriented architecture developed to capture simplified authoring techniques promote reuse and standardization of ITs along with automated instructional techniques and effectiveness evaluation capabilities for adaptive tutoring tools and methods **Routledge International Handbook of Schools and Schooling in Asia** Kerry J. Kennedy,John Chi-Kin Lee,2018-05-11 This comprehensive handbook is the ultimate reference work providing authoritative and international overviews of all aspects of schools and schooling in Asia Split into 19 sections it covers curriculum learning and assessment private supplementary tutoring special education gender issues ethnic minority education and LGBTQI students in Asian schools The volume displays the current state of the scholarship for schools and schooling in Asia including emerging controversial and cutting edge contributions using a thematic approach The content offers a broad sweep of the region with a focus on theoretical cultural and political issues as well as identifying educational issues and priorities such as curriculum assessment teacher education school leadership etc all of which impact students and learning in multiple ways The Routledge International Handbook of Schools and Schooling in Asia brings together experts in each area to contribute their knowledge providing a multidimensional and rich view of the issues confronting the region s school and education systems Chapters 34 35 36 37 and 38 of this book are freely available as downloadable Open Access PDFs at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license *200 technical questions and answers for job interview Offshore Drilling Rigs* Petrogav International Oil & Gas Training Center,2020-06-29 The job interview is probably the most important step you will take in your job search journey

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