

## FACULTY OF ENGINEERING &amp; TECHNOLOGY

B.E. (Bridge Course) II – Semester (Main) Examination, June 2013

Subject: Engineering Mechanics

Max. Marks: 75

Time: 3 Hours

Note: Answer all questions of Part A. Answer any Five questions from Part B.

## PART – A (25 Marks)

1. What is the ratio of  $F_1 : F_2 : R$ , if the resultant of two forces  $F_1$  and  $F_2$  acting at a point is  $R$ . Assume that, if  $F_2$  is doubled,  $R$  is also doubled. (2)
2. Define (a) free body diagram and (b) Principle of transmissibility of forces. (2)
3. What will happen if a block of 950 N weight is kept to be in equilibrium with force 1400 N when co-efficient of friction between the interface is 0.3. (3)



4. Determine co-ordinates of centroids of the following bodies. (3)



5. The shaded section shown in Fig. has an area of  $5 \text{ cm}^2$  and a moment of inertia of  $30 \text{ cm}^4$ , about axis  $X_1$ . Find moment of inertia about axis  $X_2$ . (2)



6. Determine the mass moment of inertia of a rod (in x-x) placed in standing position, is given below. Its diameter = 600 mm, height = 1900 mm, mass = 3 Kg. (3)



7. A bullet leaves the muzzle of a gun with velocity,  $V=740 \text{ m/s}$ . Assuming constant acceleration from breech to muzzle, find the time 't' occupied by the bullet in traveling through the gun barrel, which is 740 mm long. (3)

8. If a uniform cylinder of mass 'm' and radius 'r' rolls down an incline from a height 'h' without slipping, the maximum attainable velocity 'v' of its mass centre will be the \_\_\_\_\_. (2)

(a)  $v = \sqrt{gh}$     (b)  $v = \sqrt{\frac{2}{3}gh}$     (c)  $v = \sqrt{\frac{4}{3}gh}$     (d)  $v = \sqrt{2gh}$

9. Two balls are projected from the same point in the direction inclined at  $60^\circ$  and  $30^\circ$  to the horizontal. Determine the ratio of velocity of projections if they have same horizontal range. (3)

10. A vehicle enters a curve of 300 m radius at a speed of 16 m/s. If the vehicle increases its speed at a rate of  $3 \text{ m/s}^2$ , what will be its total acceleration when it has travelled 300 m along the curve. (2)

# June 2013 97mechanics Paper 41

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## **June 2013 97mechanics Paper 41:**

Pressure Transient Analysis Djebbar Tiab, 2024-09-04 Pressure Transient Analysis Pressure Derivative provides focuses on applications of pressure and derivative data for interpretation of pressure transient tests offering alternatives to costly commercial software Building from basics this practical text spans wells near single and multi boundary systems hydraulically fractured wells naturally fractured reservoirs interpretation of interference and pulse tests gas well test analysis including sources of emissions and decarbonizing strategies geological sequestration CCS risks and stress on CCS multiphase flow injectivity and falloff tests rate transient and multi rate tests partially penetrated perforated vertical and slanted wells and horizontal wells in conventional and unconventional reservoirs Many techniques and equations presented in this book can be found in the black box of commercial well test analysis software packages this practical text unlocks unpacks and makes critical analytical tools accessible to core users Delivers an alternative technique to type curve matching using the loglog analysis Introduces simple analytical equations used in the step by step procedure for analyzing pressure transient tests Presents common cases encountered by practicing engineers inspired by a robust literature review boasting over 500 diverse global sources Includes 75 solved simulated exercises and field cases along with 81 unsolved problems simulated and field cases to reinforce learning Supports sustainability and the reduction of carbon emissions by addressing carbon footprints emissions sources and decarbonizing strategies carbon capture storage and CO<sub>2</sub> storage *Globalization Development and Social Justice* Ann El Khoury, 2015-03-27 Are there existing alternatives to corporate globalization What are the prospects for and commonalities between communities and movements such as Occupy the World Social Forum and alternative economies Globalization Development and Social Justice advances the proposition that another globalization is not only possible but already exists It demonstrates that there are multiple pathways towards development with social justice and argues that enabling propositional agency rather than oppositional agency such as resistance is a more effective alternative to neoliberal globalization El Khoury develops a theory of infraglobalization that emphasizes creative constitution not just contestation of global and local processes The book features case studies and examples of diverse economic practice and innovative emergent political forms from the Global South and North These case studies are located in the informal social economy and community development as well as everyday practices from prefigurative politics to community cooperatives and participatory planning This book makes an important contribution to debates about the prospects for and practices of a transformative grassroots globalization and to critical debates about globalization and development strategies It will be of interest to students and scholars of international relations globalization social movement studies political and economic geography sociology anthropology and development studies **Guidelines for Open Pit Slope Design in Weak Rocks** Derek Martin, Peter Stacey, 2018-01-10 Weak rocks encountered in open pit mines cover a wide variety of materials with properties ranging between soil and rock As such they can provide a significant challenge for the slope designer For

these materials the mass strength can be the primary control in the design of the pit slopes although structures can also play an important role. Because of the typically weak nature of the materials groundwater and surface water can also have a controlling influence on stability. Guidelines for Open Pit Slope Design in Weak Rocks is a companion to Guidelines for Open Pit Slope Design which was published in 2009 and dealt primarily with strong rocks. Both books were commissioned under the Large Open Pit LOP project which is sponsored by major mining companies. These books provide summaries of the current state of practice for the design implementation and assessment of slopes in open pits with a view to meeting the requirements of safety as well as the recovery of anticipated ore reserves. This book which follows the general cycle of the slope design process for open pits contains 12 chapters. These chapters were compiled and written by industry experts and contain a large number of case histories. The initial chapters address field data collection the critical aspects of determining the strength of weak rocks the role of groundwater in weak rock slope stability and slope design considerations which can differ somewhat from those applied to strong rock. The subsequent chapters address the principal weak rock types that are encountered in open pit mines including cemented colluvial sediments weak sedimentary mudstone rocks soft coals and chalk weak limestone saprolite soft iron ores and other leached rocks and hydrothermally altered rocks. A final chapter deals with design implementation aspects including mine planning monitoring surface water control and closure of weak rock slopes. As with the other books in this series Guidelines for Open Pit Slope Design in Weak Rocks provides guidance to practitioners involved in the design and implementation of open pit slopes particularly geotechnical engineers mining engineers geologists and other personnel working at operating mines.

[Spying on Whales](#) Nick Pyenson, 2019-06-25 A palaeontological howdunnit Spying on Whales captures the excitement of seeking answers to deep questions in cetacean science. Nature Called the best of science writing Edward O Wilson and named a best book by Popular Science a dive into the secret lives of whales from their four legged past to their perilous present. Whales are among the largest most intelligent deepest diving species to have ever lived on our planet. They evolved from land roaming dog sized creatures into animals that move like fish breathe like us can grow to 300 000 pounds live 200 years and travel entire ocean basins. Whales fill us with terror awe and affection yet there is still so much we don't know about them. Why did it take whales over 50 million years to evolve to such big sizes and how do they eat enough to stay that big? How did their ancestors return from land to the sea and what can their lives tell us about evolution as a whole? Importantly in the sweepstakes of human driven habitat and climate change will whales survive? Nick Pyenson's research has given us the answers to some of our biggest questions about whales. He takes us deep inside the Smithsonian's unparalleled fossil collections to frigid Antarctic waters and to the arid desert in Chile where scientists race against time to document the largest fossil whale site ever found. Full of rich storytelling and scientific discovery Spying on Whales spans the ancient past to an uncertain future all to better understand the most enigmatic creatures on Earth.

**The technological process on Offshore Drilling Platforms for fresher candidates**

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 eBooks 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

*Rock Mechanics and Rock Engineering: From the Past to the Future* Reşat Ulusay,2016-11-18 Rock Mechanics and Rock Engineering From the Past to the Future contains the contributions presented at EUROCK2016 the 2016 International Symposium of the International Society for Rock Mechanics ISRM 2016 rg p Cappadocia Region Turkey 29 31 August 2016 The contributions cover almost all aspects of rock mechanics and rock engineering from theories to engineering practices emphasizing the future direction of rock engineering technologies The 204 accepted papers and eight keynote papers are grouped into several main sections Fundamental rock mechanics Rock properties and experimental rock mechanics Analytical and numerical methods in rock engineering Stability of slopes in civil and mining engineering Design methodologies and analysis Rock dynamics rock mechanics and rock engineering at historical sites and monuments Underground excavations in civil and mining engineering Coupled processes in rock mass for underground storage and waste disposal Rock mass characterization Petroleum geomechanics Carbon dioxide sequestration Instrumentation monitoring in rock engineering and back analysis Risk management and the 2016 Rocha Medal Lecture and the 2016 Franklin Lecture Rock Mechanics and Rock Engineering From the Past to the Future will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2016 organized by the Turkish National Society for Rock Mechanics is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

**The Illustrated Wavelet Transform Handbook** Paul S.

Addison,2017-01-06 This second edition of The Illustrated Wavelet Transform Handbook Introductory Theory and Applications in Science Engineering Medicine and Finance has been fully updated and revised to reflect recent developments in the theory and practical applications of wavelet transform methods The book is designed specifically for the applied reader in science engineering medicine and finance Newcomers to the subject will find an accessible and clear account of the theory of continuous and discrete wavelet transforms while readers already acquainted with wavelets can use the book to broaden their perspective One of the many strengths of the book is its use of several hundred illustrations some in colour to convey key concepts and their varied practical uses Chapters exploring these practical applications highlight both the similarities and differences in wavelet transform methods across different disciplines and also provide a comprehensive list of over 1000 references that will serve as a valuable resource for further study Paul Addison is a Technical Fellow with Medtronic a global

medical technology company Previously he was co founder and CEO of start up company CardioDigital Ltd and later co founded its US subsidiary CardioDigital Inc a company concerned with the development of novel wavelet based methods for biosignal analysis He has a master s degree in engineering and a PhD in fluid mechanics both from the University of Glasgow Scotland founded 1451 His former academic life as a tenured professor of fluids engineering included the output of a large number of technical papers covering many aspects of engineering and bioengineering and two textbooks *Fractals and Chaos An Illustrated Course* and the first edition of *The Illustrated Wavelet Transform Handbook* At the time of publication the author has over 100 issued US patents concerning a wide range of medical device technologies many of these concerning the wavelet transform analysis of biosignals He is both a Chartered Engineer and Chartered Physicist

Gamification in Education and Business Torsten Reiners, Lincoln C. Wood, 2014-11-22 This book is dedicated to applied gamification in the areas of education and business while also covering pitfalls to avoid and guidelines needed to successfully implement for a project Using different theoretical backgrounds from various areas including behavioral economics game theory and complex adaptive systems the contributors aim to help readers avoid common problems and difficulties that they could face with poor implementation The book s contributors are scholars and academics from the many areas where the key theory of gamification typically comes from Ultimately the book s goal is to help bring together the theories from these different disciplines to the field of practice in education and business The book is divided into four parts Theory Education Business and Use Cases Part I provides a foundation on the theory of gamification and offers insight into some of the outstanding questions that have yet to be addressed In Part II the application and value that gamification can bring within the education sector is examined The book then changes focus in Part III to spotlight the use of gamification within business environments The topics also cover educational aspects like improved learning outcomes motivation and learning retention at the workplace Finally Part IV concentrates on the applications and use of gamification through a series of case studies and key elements that are used in real situations to drive real results

*Law and Economics in India* Bimal N. Patel, Ranita Nagar, Hiteshkumar Thakkar, 2016-07-22 This is one of the first volumes that uses economic tools to analyse and evaluate law and policy in India Applying economic theories such as incentive analysis cost benefit studies and game theory the essays in the volume negotiate contentious issues in law including property contracts torts nuclear liability regime bankruptcy law criminal law and procedure constitutional law administrative law environmental law and family law A radical take on commercial and socio legal issues in India this book will greatly interest scholars and researchers of law political economy and public policy

*Offshore Drilling Rigs* JOB INTERVIEW 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 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 eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring

managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 266 questions and answers for job interview and as a BONUS 205 web addresses to recruitment companies where you may apply for a job 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 Evolution of Geotech - 25 Years of Innovation* Reginald Hammah,Thamer Yacoub,Alison McQuillan,John Curran,2021-11-23 This publication includes 82 technical papers presented at Rocscience International Conference RIC 2021 held online on April 20 and 21 2021 Rocscience created this event to bring geotechnical academics researchers and practitioners together to exchange ideas as part of celebrating 25 years of the company s existence The papers in these proceedings were from keynotes panel discussions and papers selected after careful review of over 100 technical submissions delivered at RIC 2021 The technical papers were grouped into sessions based on their subject areas The conference aimed to stimulate discussions that could help the industry work towards overcoming geotechnical engineering limitations today It also sought to foster creative thinking that will advance the current states of the art and practice The keynote addresses panel discussions and technical presentations tried to examine geotechnical problems and situations from fresh perspectives RIC 2021 hopes that the proceedings will continue to enrich our thinking and contribute to achieving a critical mass of change in our practices and approaches We look forward to significant improvements in our industry **Offshore Drilling Platforms JOB INTERVIEW** Petrogav International Oil & Gas Training Center,2020-06-28

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 eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answer for job interview and as a BONUS 205 web addresses to recruitment companies where you may apply for a job 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 **Training for job interview Offshore Drilling Platforms** Petrogav

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Francesco Silvestri,Nicola Moraci,2019-10-22 Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions contains invited keynote and theme lectures and regular papers presented at the 7th International Conference on Earthquake Geotechnical Engineering Rome Italy 17 20 June 2019 The contributions deal with recent developments and advancements as well as case histories field monitoring experimental characterization physical and analytical modelling and applications related to the variety of environmental phenomena induced by earthquakes in soils and their effects on engineered systems interacting with them The book is divided in the sections below Invited papers Keynote papers Theme lectures Special Session on Large Scale Testing Special Session on Liquefact Projects Special Session on



Lessons learned from recent earthquakes Special Session on the Central Italy earthquake Regular papers Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions provides a significant up to date collection of recent experiences and developments and aims at engineers geologists and seismologists consultants public and private contractors local national and international authorities and to all those involved in research and practice related to Earthquake Geotechnical Engineering

Fuel Economy John C. Hilliard, George S. Springer, 2013-11-11 Concern about the reduced availability and the increased cost of petroleum fuels prompted great efforts in recent years to reduce the fuel consumption of auto mobiles The ongoing efforts to reduce fuel consumption have addressed many relevant factors including increased engine performance reduced friction use of lightweight materials and reduced aerodynamic drag The results of the investigations assessing the various factors affecting fuel economy have been published in journals conference proceedings and in company and government reports This proliferation of technical information makes it difficult for workers to keep abreast of aU developments The material presented in this book brings together in a single volume much of the relevant materials summarizes many of the state of the art theories and data and provides extensive lists of references Thus it is hoped that this book will be a useful reference for specialists and practicing engineers interested in the fuel economy of automobiles J C HILLIARD o S SPRINGER vii CONTENTS 1 AUTOMOTIVE FUEL ECONOMY David Cole I Introduction and Background 1 n Fuel Economy Factors 9 A Engine 11 B Drive Train 20 C Vehicle Factors 22 D Operating Factors 28 E Test Cycles 32 References 33 2 FUEL ECONOMY AND EMISSIONS J T Kummer I Introduction 35 n Emission Regulations

**The Oxford Handbook of Computational Economics and Finance** Shu-Heng Chen, Mak Kaboudan, Ye-Rong Du, 2018-01-12 The Oxford Handbook of Computational Economics and Finance provides a survey of both the foundations of and recent advances in the frontiers of analysis and action It is both historically and interdisciplinarily rich and also tightly connected to the rise of digital society It begins with the conventional view of computational economics including recent algorithmic development in computing rational expectations volatility and general equilibrium It then moves from traditional computing in economics and finance to recent developments in natural computing including applications of nature inspired intelligence genetic programming swarm intelligence and fuzzy logic Also examined are recent developments of network and agent based computing in economics How these approaches are applied is examined in chapters on such subjects as trading robots and automated markets The last part deals with the epistemology of simulation in its trinity form with the integration of simulation computation and dynamics Distinctive is the focus on natural computationalism and the examination of the implications of intelligent machines for the future of computational economics and finance Not merely individual robots but whole integrated systems are extending their immigration to the world of Homo sapiens or symbiogenesis

**Applications of Quantum Mechanical Techniques to Areas Outside of Quantum Mechanics. 2nd Edition** Emmanuel Haven, Andrei Khrennikov, 2019-11-14 This book deals with applications of quantum mechanical techniques to areas outside of quantum

mechanics so called quantum like modeling Research in this area has grown over the last 15 years But even already more than 50 years ago the interaction between Physics Nobelist Pauli and the psychologist Carl Jung in the 1950 s on seeking to find analogous uses of the complementarity principle from quantum mechanics in psychology needs noting This book does NOT want to advance that society is quantum mechanical The macroscopic world is manifestly not quantum mechanical But this rules not out that one can use concepts and the mathematical apparatus from quantum physics in a macroscopic environment A mainstay ingredient of quantum mechanics is quantum probability and this tool has been proven to be useful in the mathematical modelling of decision making In the most basic experiment of quantum physics the double slit experiment it is known from the works of A Khrennikov that the law of total probability is violated It is now well documented that several decision making paradoxes in psychology and economics such as the Ellsberg paradox do exhibit this violation of the law of total probability When data is collected with experiments which test non rational decision making behaviour one can observe that such data often exhibits a complex non commutative structure which may be even more complex than if one considers the structure allied to the basic two slit experiment The community exploring quantum like models has tried to address how quantum probability can help in better explaining those paradoxes Research has now been published in very high standing journals on resolving some of the paradoxes with the mathematics of quantum physics The aim of this book is to collect the contributions of world s leading experts in quantum like modeling in decision making psychology cognition economics and finance

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