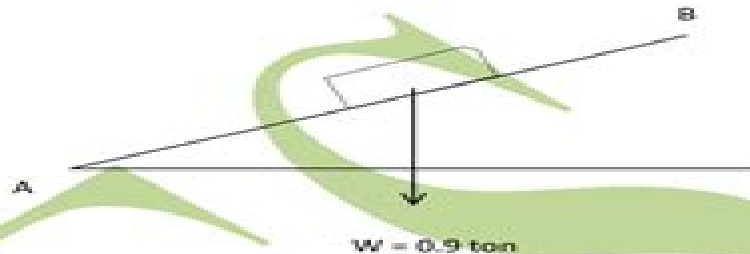# QUESTION 1: MOTION, ENERGY AND POWER

1.1      State the law of conservation of energy in words.      (2)

1.2      A motorcar with a mass of 0,9 ton is parked on an incline AB of 1 : 20. The motorcar departs from rest at A and within 12 seconds reaches a speed of 144 km/h.

If all frictional losses are neglected, calculate:



W = 0,9 ton

1.2.1      The acceleration of the car from A to B

1.2.2      The pulling force of the car's engine

1.2.3      The length of the gradient

1.2.4      The power of the car's engine

1.2.5      The potential energy at B      (5 x 2)      (10)

1.3      A Gautrain experiences a tractive resistance of 280 N per 1 000 kg when it moves.

If the Gautrain exerts a force of 80 kN when it has a mass of 40 000 kg, calculate the acceleration of the Gautrain.      (4)

     [16]

# Engineering Science N3 2013 Question And Answer

Jean-Pierre Elloy,Jean-Marie Piasco

**Engineering Science N3 2013 Question And Answer:**

**Social Information Access** Peter Brusilovsky,Daqing He,2018-05-02 Social information access is defined as a stream of research that explores methods for organizing the past interactions of users in a community in order to provide future users with better access to information Social information access covers a wide range of different technologies and strategies that operate on a different scale which can range from a small closed corpus site to the whole Web The 16 chapters included in this book provide a broad overview of modern research on social information access In order to provide a balanced coverage these chapters are organized by the main types of information access i e social search social navigation and recommendation and main sources of social information *Trends and Applications in Software Engineering* Jezreel Mejia,Mirna Muñoz,Álvaro Rocha,Tomas San Feliu,Adriana Peña,2016-10-10 This book offers a selection of papers from the 2016 International Conference on Software Process Improvement CIMPS 16 held between the 12th and 14th of October 2016 in Aguascalientes Aguascalientes M xico The CIMPS 16 is a global forum for researchers and practitioners to present and discuss the most recent innovations trends results experiences and concerns in the different aspects of software engineering with a focus on but not limited to software processes security in information and communication technology and big data The main topics covered include organizational models standards and methodologies knowledge management software systems applications and tools information and communication technologies and processes in non software domains mining automotive aerospace business health care manufacturing etc with a clear focus on software process challenges **The Closing of the Liberal Mind** Kim R. Holmes,2016-04-12 A former U S Assistant Secretary of State and currently a Distinguished Fellow at the Heritage Foundation Kim R Holmes surveys the state of liberalism in America today and finds that it is becoming its opposite illiberalism abandoning the precepts of open mindedness and respect for individual rights liberties and the rule of law upon which the country was founded and becoming instead an intolerant rigidly dogmatic ideology that abhors dissent and stifles free speech Tracing the new illiberalism historically to the radical Enlightenment a movement that rejected the classic liberal ideas of the moderate Enlightenment that were prominent in the American Founding Holmes argues that today s liberalism has forsaken its American roots incorporating instead the authoritarian anti clerical and anti capitalist prejudices of the radical and largely European Left The result is a closing of the American liberal mind Where once freedom of speech and expression were sacrosanct today liberalism employs speech codes trigger warnings boycotts and shaming rituals to stifle freedom of thought expression and action It is no longer appropriate to call it liberalism at all but illiberalism a set of ideas in politics government and popular culture that increasingly reflects authoritarian and even anti democratic values and which is devising new strategies of exclusiveness to eliminate certain ideas and people from the political process Although illiberalism has always been a temptation for American liberals lurking in the radical fringes of the Left it is today the dominant ideology of progressive liberal circles This makes it a new danger not only to the once

venerable tradition of liberalism but to the American nation itself which needs a viable liberal tradition that pursues social and economic equality while respecting individual liberties **Proceedings of the First International Scientific Conference "Intelligent Information Technologies for Industry" (IITI'16)** Ajith Abraham,Sergey Kovalev,Valery Tarassov,Václav Snášel,2016-05-10 This volume of Advances in Intelligent Systems and Computing contains papers presented in the main track of IITI 2016 the First International Conference on Intelligent Information Technologies for Industry held in May 16 21 in Sochi Russia The conference was jointly co organized by Rostov State Transport University Russia and V B Technical University of Ostrava Czech Republic with the participation of Russian Association for Artificial Intelligence RAAI and Russian Association for Fuzzy Systems and Soft Computing RAFSSC The volume is devoted to practical models and industrial applications related to intelligent information systems The conference has been a meeting point for researchers and practitioners to enable the implementation of advanced information technologies into various industries Nevertheless some theoretical talks concerning the state of the art in intelligent systems and soft computing are included in the proceedings as well **Artificial Intelligence Perspectives and Applications** Radek Silhavy,Roman Senkerik,Zuzana Kominkova Oplatkova,Zdenka Prokopova,Petr Silhavy,2015-04-25 This volume is based on the research papers presented in the 4th Computer Science On line Conference The volume Artificial Intelligence Perspectives and Applications presents new approaches and methods to real world problems and in particular exploratory research that describes novel approaches in the field of artificial intelligence Particular emphasis is laid on modern trends in selected fields of interest New algorithms or methods in a variety of fields are also presented The Computer Science On line Conference CSOC 2015 is intended to provide an international forum for discussions on the latest high quality research results in all areas related to Computer Science The addressed topics are the theoretical aspects and applications of Computer Science Artificial Intelligences Cybernetics Automation Control Theory and Software Engineering **Shaping Images** Thorsten Stephan Beck,2016-09-12 Images play an outstanding role in the transfer of knowledge They are used in numerous academic disciplines to present scientific results Digital tools such as Adobe Photoshop make it possible to display the information in images brilliantly and clearly at the same time the line between appropriate and inappropriate manipulation is not always easy to draw Scientific journals have published guidelines for handling and editing images but they are not always specific enough to provide clarity for all situations Shaping Images examines how scholars from biology information science art history and design deal with this uncertainty how they process and manipulate images where they see their special potential and how they draw the line between appropriate and inappropriate image manipulation The work also looks at scientific journals and lets selected editors have their say What would have to happen to make it possible to combat image manipulation in science more effectively The book s interdisciplinary approach makes it clear how different the practices are and how different the views are on what should be allowed in the processing of images Images this too is problematized in the book are always a means

to a certain end which is precisely why the handling of images should be thoroughly reflected upon **Jspr Vol 35-N3** Journal of School Public Relations,2015-01-22 The Journal of School Public Relations is a quarterly publication providing research analysis case studies and descriptions of best practices in six critical areas of school administration public relations school and community relations community education communication conflict management resolution and human resources management Practitioners policymakers consultants and professors rely on the Journal for cutting edge ideas and current knowledge Articles are a blend of research and practice addressing contemporary issues ranging from passing bond referenda to building support for school programs to integrating modern information **Incomplete Categorical Data Design** Guo-Liang Tian,Man-Lai Tang,2016-04-19 Respondents to survey questions involving sensitive information such as sexual behavior illegal drug usage tax evasion and income may refuse to answer the questions or provide untruthful answers to protect their privacy This creates a challenge in drawing valid inferences from potentially inaccurate data Addressing this difficulty non randomized response approaches enable sample survey practitioners and applied statisticians to protect the privacy of respondents and properly analyze the gathered data Incomplete Categorical Data Design Non Randomized Response Techniques for Sensitive Questions in Surveys is the first book on non randomized response designs and statistical analysis methods The techniques covered integrate the strengths of existing approaches including randomized response models incomplete categorical data design the EM algorithm the bootstrap method and the data augmentation algorithm A self contained systematic introduction the book shows you how to draw valid statistical inferences from survey data with sensitive characteristics It guides you in applying the non randomized response approach in surveys and new non randomized response designs All R codes for the examples are available at www saasweb hku hk staff gltian **Classical and Modern Control with Worked Examples** Jean-Pierre Elloy,Jean-Marie Piasco,2013-10-22 Classical and Modern Control with Worked Examples contains problems in automatic control with emphasis on continuous time systems The book contains exercises that increase in difficulty The text is organized into three parts with each of the three parts divided into two chapters The first chapter of each part consists of a course abstract the second chapter contains the exercises relevant to the course in question The first and second parts are devoted to linear and non linear servo systems The third part introduces representation in the form of equations of state of linear systems The book will be useful to students technicians and qualified engineers who wish to acquaint themselves in a practical way with both the traditional and the modern principles of automatic control and with their application to industrial processes of all kinds *Security in Computing* Charles P. Pfleeger,Shari Lawrence Pfleeger,Jonathan Margulies,2015-01-14 The New State of the Art in Information Security Now Covers Cloud Computing the Internet of Things and Cyberwarfare Students and IT and security professionals have long relied on Security in Computing as the definitive guide to computer security attacks and countermeasures Now the authors have thoroughly updated this classic to reflect today s newest technologies attacks standards and trends Security in

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