

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 N4 November 2013

Natalya Barmina, Evgenii Trubachev



Engineering Science N4 November 2013:

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

The Man Who Built the Swordfish Adrian Smith, 2018-04-30 Sir Richard Fairey was one of the great aviation innovators of the twentieth century His career as a plane maker stretched from the Edwardian period to the jet age he lived long enough to see one of his aircraft be the first to break the 1000mph barrier and at least one of his designs the Swordfish holds iconic status A qualified engineer party to the design development and construction of the Royal Navy s state of the art sea planes Sir Richard founded Fairey Aviation at the Admiralty s behest in 1915 His company survived post war retrenchment to become one of Britain s largest aircraft manufacturers The firm built a succession of front line aircraft for the RAF and the Fleet Air Arm including the iconic Swordfish In addition Fairey Aviation designed and built several cutting edge experimental aircraft including long distance record breakers between the wars and the stunningly beautiful Delta 2 which broke the world speed record on the eve of Sir Richard s death in 1956 Fairey also came to hold a privileged position in the British elite courting politicians and policymakers He became a figurehead of the British aviation industry and his successful running of the British Air Commission earned him a knighthood A key player at a pivotal moment Fairey s life tells us much about the exercise of power in early twentieth century Britain and provides an insight into the nature of the British aviation manufacturing industry at its wartime peak and on the cusp of its twilight years

Gears in Design, Production and Education Natalya Barmina, Evgenii Trubachev, 2021-05-31 This book is the fourth volume in the series devoted to gear engineering and computer aided design production testing and education It comprises fundamental and applied research contributions by scientists and gear experts from all the world and covers recent developments and

historical achievements in various spheres of mechanical engineering related to different kinds of gears transmissions and drive systems It gathers contributions describing the advanced approaches to research design testing and production of practically all common and new kinds of gears for a vast number of advanced applications Special attention is paid to issues of higher education in the field of gears The book is intended as a tribute to professor Veniamin Goldfarb 1941 2019 one of the world known leaders in the field of gear research education and production who contributed much to the active international cooperation of gear experts and to promotion of MMS science The introductory chapter of this book relates his research to major developments in the field of mechanisms and machine science and outlines important contributions that he made within the period of 1964 2019

From Chromosomes to Mobile Genetic Elements Lee B. Kass, 2024-06-27 This biography of Nobel Laureate Barbara McClintock 1902 1992 places her life and work in its social scientific and personal context The author examines the development of Barbara McClintock s scientific work and her influence upon individuals and upon the fields of cytogenetics and evolutionary biology in the period from 1902 to the present The history documents years of McClintock s notable and lauded scientific work long before she discovered and named transposable elements in the mid 1940s for which she ultimately received the Nobel Prize The biography employs documented evidence to expose demystify and provide clarity for legends and misinterpretations of McClintock s life and work Key Features Exposes and demystifies myths and legends told about McClintock s time in Missouri Clarifies the changing language of genes and genetics Places in perspective the history of McClintock s research Documents McClintock s family and early life before college Provides documented details of McClintock s time in Nazi Germany

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

Knowledge Engineering and Knowledge Management Paolo Ciancarini, Francesco Poggi, Matthew Horridge, Jun Zhao, Tudor Groza, Mari Carmen Suarez-Figueroa, Mathieu d'Aquin, Valentina Presutti, 2017-05-17 This book contains the best selected papers of two Satellite Events held at the 20th International Conference on Knowledge Engineering and Knowledge Management EKAW 2016 in November 2016 in Bologna Italy The Second International Workshop on Educational Knowledge Management EKM 2016 and the First Workshop Detection Representation and Management of Concept Drift in Linked Open

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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 Mechanisms in Engineering Education Engineering Technologies Mechanical and Materials Engineering Financial Engineering Energy and Environmental Engineering Social Engineering Information Engineering Bioengineering and Chemical engineering Engineering Management Decision Support System Project and Quality Management Human Resource Management The book will be of interest to academics and professionals in Engineering Technologies Engineering Education and Engineering Management

OAR Quarterly Index of Current Research Results United States. Air Force. Office of Aerospace Research, 1967

The International Conference on Health Informatics Yuan-Ting Zhang, 2013-11-20 This volume presents the proceedings of the International Conference on Health Informatics ICHI The conference was a new special topic conference initiative by the International Federation of Medical and Biological Engineering IFMBE held in Vilamoura Portugal on 7-9 November 2013 The main theme of the ICHI2013 was Integrating Information and Communication Technologies with Biomedicine for Global Health The proceedings offer a unique forum to examine enabling technologies of sensors devices and systems that optimize the acquisition transmission processing storage retrieval of biomedical and health information as well as to report novel clinical applications of health information systems and the deployment of m Health e Health u Health p Health and Telemedicine

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

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