

## 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° 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.  $2,327 \times 10^{-3}$  rad.
- B.  $1,745 \times 10^{-3}$  rad.
- C.  $2,117 \times 10^{-3}$  rad.
- D.  $1,227 \times 10^{-3}$  rad.

1.2.4 The linear velocity/tangential velocity of the minute arm is:

- A.  $2,447 \times 10^{-2}$  m/s.
- B.  $4,189 \times 10^{-2}$  m/s.
- C.  $4,447 \times 10^{-2}$  m/s.
- D.  $3,141 \times 10^{-2}$  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 November 2014 N4

**Marco Cascella**

## **Engineering Science November 2014 N4:**

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

## **Handbook of Research on Promoting Logistics and Supply Chain Resilience**

**Through Digital Transformation** Masudin, Ilyas,Almunawar, Mohammad Nabil,Restuputri, Dian Palupi,Sud-On, Ploy,2022-11-25 Adoption of new technologies in logistics and supply chain processes is crucial for the continued effectiveness of supply chains Technology has the potential to address the issue of logistics and supply chain visibility throughout the supply chain from raw materials through manufacturers and end users When properly implemented improved forecasting of inventory levels employee productivity adequate accountability and higher warehouse savings are all possible Additionally businesses must upskill their supply chain workers and recruit and manage digital talent in cross functional teams The Handbook of Research on Promoting Logistics and Supply Chain Resilience Through Digital Transformation discusses the ways in which global logistics and supply chains have been severely disrupted by digital technology transformation The book helps policymakers in designing a resilient framework that can absorb external shocks like the COVID 19 pandemic and also enhances the performance and operational capability of the logistics and supply chain network Covering topics such as oil and gas maintenance support stakeholder management and business optimization strategy this major reference work is essential for logistics professionals business leaders and executives IT managers government officials manufacturers students and faculty of higher education librarians researchers and academicians

## **Geographic**

**Index of Environmental Articles** ,1994 *Methods in computational genomics* Nathan Olson,Lei Chen,2024-02-06

*Nano optics 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

**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

*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

*Reference Sources, 1981* S. Balachandran,M. Balachandran,1992-03

**Handbook of Membrane Separations** Anil K. Pabby,S. Ranil

Wickramasinghe,Ana-Maria Sastre,2023-12-22 The third edition of the Handbook of Membrane Separations Chemical Pharmaceutical Food and Biotechnological Applications provides a comprehensive discussion of membrane applications Fully updated to include the latest advancements in membrane science and technology it is a one of its kind overview of the existing literature This fully illustrated handbook is written by experts and professionals in membrane applications from around the world Key Features Includes entirely new chapters on organic solvent resistant nanofiltration membrane condensers membrane reactors in hydrogen production membrane materials for haemodialysis and integrated membrane distillation Covers the full spectrum of membrane technology and its advancements Explores membrane applications in a range of fields from biotechnological and food processing to industrial waste management and environmental engineering This book will appeal to both newcomers to membrane science as well as engineers and scientists looking to expand their knowledge on upcoming advancements in the field

**Index to IEEE Publications** Institute of Electrical and Electronics

Engineers,1980 Issues for 1973 cover the entire IEEE technical literature

[Yearbook of International Organizations 2013-2014 \(Volumes 1a-1b\)](#) Union Of International Associations,Union of International Associations,2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events

**Precision**

**Machining VII** János Kundrák,Zsolt Maros,2013-10-07 Selected peer reviewed papers from the 7th International Congress of Precision Machining ICPM 2013 October 3 5 2013 Miskolc Hungary

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**Government**

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**Annual Report 1989-90** New

Brunswick. Department of Transportation,1991 General activity review of associated branches and agencies to the Department which includes corporate securities registrations a list of tenders received and general financial data Branches and agencies reviewed are responsible for motor vehicle activity highway construction traffic engineering

telecommunications and public utilities

[Environment Abstracts](#) ,1976 This database encompasses all aspects of the

impact of people and technology on the environment and the effectiveness of remedial policies and technologies featuring more than 950 journals published in the U S and abroad The database also covers conference papers and proceedings special

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web by the end of the eocene the earliest four legged whales had gone extinct and the descendants of the first fully aquatic whales such as basilosaurus diverged into the two main groups of whales we see today baleen whales

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web nov 14 2023 whale any of the larger species of aquatic mammals belonging to the order cetacea whales are the heaviest known animals living or fossil reaching a maximum size in the blue whale of perhaps more than 30 meters and 200 metric tons they are distributed throughout the world s oceans and seas

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web there are 15 baleen whales 3 sperm whales 23 beaked whales 2 monodontidae narwhal and beluga 42 dolphins including 4 river dolphins and 7 porpoises cetaceans are broadly divided into two groups depending on whether they have teeth odontocetes or baleen mysticetes

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web whales roam throughout all of the world s oceans communicating with complex and mysterious sounds their sheer size amazes us the blue whale can reach lengths of more than 100 feet and weigh up to 200 tons as much as 33 elephants despite living in the water whales breathe air

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web whales are fully aquatic open ocean animals they can feed mate give birth suckle and raise their young at sea whales range in size from the 2 6 metres 8 5 ft and 135 kilograms 298 lb dwarf sperm whale to the 29 9 metres 98 ft and 190 tonnes 210 short tons blue whale which is the