

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.

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David Parsons, Kathryn MacCallum



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Hydraulic Engineering III Liquan Xie, 2014-11-11 Hydraulic research is developing beyond the borders of traditional civil engineering to meet increasing demands in natural hazards structural safety assessment and also environmental research Hydraulic Engineering III contains 62 technical papers from the 3rd Technical Conference on Hydraulic Engineering CHE 2014 Hong Kong 13 14 December 2014 *Computers Supported Education* Paula Escudeiro, Gennaro Costagliola, Susan Zvacek, James Uhomoibhi, Bruce M. McLaren, 2018-07-24 This book constitutes the thoroughly refereed proceedings of the 9th International Conference on Computer Supported Education CSEDU 2017 held in Porto Portugal in April 2017 The 22 revised full papers were carefully reviewed and selected from 179 submissions The papers deal with the following topics new educational environments best practices and case studies of innovative technology based learning strategies institutional policies on computer supported education including open and distance education *Tep Vol 30-N4 Teacher Education and Practice*, 2017-12-20 Teacher Education and Practice a peer refereed journal is dedicated to the encouragement and the dissemination of research and scholarship related to professional education The journal is concerned in the broadest sense with teacher preparation practice and policy issues related to the teaching profession as well as being concerned with learning in the school setting The journal also serves as a forum for the exchange of diverse ideas and points of view within these purposes As a forum the journal offers a public space in which to critically examine current discourse and practice as well as engage in generative dialogue Alternative forms of inquiry and representation are invited and authors from a variety of backgrounds and diverse perspectives are encouraged to contribute Teacher Education Practice is published by Rowman Littlefield **Graph-Theoretic Concepts in Computer Science** Dieter Kratsch, Ioan Todinca, 2014-10-20 This book constitutes the thoroughly refereed post conference proceedings of the 40th International Workshop on Graph Theoretic Concepts in Computer Science WG 2014 held in Nouan le Fuzelier France in June 2014 The 32 revised full papers presented were carefully reviewed and selected from 80 submissions The book also includes two invited papers The papers cover a wide range of topics in graph theory related to computer science such as design and analysis of sequential parallel randomized parameterized and distributed graph and network algorithms structural graph theory with algorithmic or complexity applications computational complexity of graph and network problems graph grammars graph rewriting systems and graph modeling graph drawing and layouts computational geometry random graphs and models of the web and scale free networks and support of these concepts by suitable implementations and applications Intelligence Science and Big Data Engineering Yuxin Peng, Kai Yu, Jiwen Lu, Xingpeng Jiang, 2018-11-08 This book constitutes the proceedings of the 8th International Conference on Intelligence Science and Big Data Engineering IScIDE 2018 held in Lanzhou China in August 2018 The 59 full papers presented in this book were carefully reviewed and selected from 121 submissions They are grouped in topical sections on robots and intelligent systems statistics and learning deep learning objects and language classification

and clustering imaging and biomedical signal processing

Trust Management VIII Jianying Zhou, Nurit Gal-Oz, Jie Zhang, Ehud Gudes, 2014-06-23 This book constitutes the refereed proceedings of the 8th IFIP WG 11.11 International Conference on Trust Management IFIPTM 2014 held in Singapore in July 2014. The 12 revised full papers and 5 short papers presented were carefully reviewed and selected from 36 submissions. In addition, the book contains one invited paper. The papers cover a wide range of topics focusing on the following main areas: trust and reputation models; privacy issues and social and behavioral models of trust; the relationship between trust and security; trust under attacks; and trust in the cloud environment.

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 increased 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. 1 Williams, and Yi Fen Yeh.

The Handbook of International Trends in Environmental Communication Bruno Takahashi, Julia Metag, Jagadish Thaker, Suzannah Evans, 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.

Agile and Lean Concepts for Teaching and Learning David Parsons, Kathryn MacCallum, 2018-10-24 This book explores the application of agile and lean techniques originally from the field of software development and manufacturing to various aspects of education. It covers a broad range of topics, including applying agile teaching and learning techniques in the classroom, incorporating lean thinking in educational workflows, and using team-based approaches to student-centred

activities based on agile principles and processes Demonstrating how agile and lean ideas can concretely be applied to education the book offers practical guidance on how to apply these ideas in the classroom or lecture hall as well as new concepts that could spark further research and development **Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set)** Union of International Associations, 2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events

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