

1. The cubic capacity of a four-stroke over-square spark-ignition engine is 245 cc. The over-square ratio is 1.1. The clearance volume is 27.2 cc. What is the stroke length of the engine ?

(a) 4.36 cm  
(b) 5.36 cm  
(c) 6.36 cm  
(d) 7.36 cm

2. A 42.5 kW engine has a mechanical efficiency of 85%. If the frictional power is assumed to be constant with load, what is the mechanical efficiency at 60% of the load ?

(a) 44.2%  
(b) 40.0%  
(c) 66.3%  
(d) 77.3%

3. A single-cylinder engine running at 1800 rpm develops a torque of 8 N-m. The indicated power of the engine is 1.8 kW. What is the loss due to friction power as the percentage of brake power ?

(a) 9.36%  
(b) 19.36%  
(c) 29.36%  
(d) 39.36%

4. A gasoline engine working on Otto cycle consumes 8 litres of gasoline per hour and develops 25 kW. The specific gravity of gasoline is 0.75 and its calorific value is 44000 kJ/kg. What is the indicated thermal efficiency of the engine ?

(a) 14.1%  
(b) 24.1%  
(c) 34.1%  
(d) 44.1%

*Directions for the following two (02) items :*

*Read the following information and answer the two items that follow :*

The bore and stroke of a water-cooled, vertical, single-cylinder, and four-stroke diesel engine are 80 mm and 110 mm respectively and the torque is 23.5 Nm.

5. What is the brake mean effective pressure of the engine ?

(a) 1.01 bar  
(b) 2.01 bar  
(c) 3.26 bar  
(d) 5.34 bar

6. What is the mean effective pressure if its rating is 4 kW at 1500 rpm ?

(a) 3.26 bar  
(b) 4.26 bar  
(c) 5.78 bar  
(d) 6.46 bar

7. A refrigerator operating on reversed Carnot cycle extracts 500 kJ/min heat from a refrigerated space being maintained at  $-18^{\circ}\text{C}$  and rejects heat to the atmosphere at  $27^{\circ}\text{C}$ . What is the work input required to run the refrigerator ?

(a) 42.46 kJ/min  
(b) 55.24 kJ/min  
(c) 66.36 kJ/min  
(d) 83.66 kJ/min

# Mechanical Technology Exam Paper 2014 Grade 11

**Johannes Edelmann, Manfred  
Plöchl, Peter Pfeffer**



## **Mechanical Technology Exam Paper 2014 Grade 11:**

Advanced Vehicle Control Johannes Edelmann, Manfred Plöchl, Peter Pfeffer, 2016-12-19 The AVEC symposium is a leading international conference in the fields of vehicle dynamics and advanced vehicle control bringing together scientists and engineers from academia and automotive industry The first symposium was held in 1992 in Yokohama Japan Since then biennial AVEC symposia have been established internationally and have considerably contributed to the progress of technology in automotive research and development In 2016 the 13th International Symposium on Advanced Vehicle Control AVEC 16 was held in Munich Germany from 13th to 16th of September 2016 The symposium was hosted by the Munich University of Applied Sciences AVEC 16 puts a special focus on automatic driving autonomous driving functions and driver assist systems integrated control of interacting control systems controlled suspension systems active wheel torque distribution and vehicle state and parameter estimation 132 papers were presented at the symposium and are published in these proceedings as full paper contributions The papers review the latest research developments and practical applications in highly relevant areas of vehicle control and may serve as a reference for researchers and engineers *Methodologies and Intelligent Systems for Technology Enhanced Learning, 9th International Conference, Workshops* Elvira Popescu, Ana Belén Gil, Loreto Lancia, Luigia Simona Sica, Anna Mavroudi, 2019-06-24 This book is based on the 9th International Conference in Methodologies and Intelligent Systems for Technology Enhanced Learning which was hosted by the University of Salamanca and held in vila Spain from 26th to 28th June 2019 Expanding on the topics of the evidence based TEL workshops series it provides an open forum for discussing intelligent technologies for learning In particular it discusses recommendation mechanisms that enable us to tailor learning to different contexts and people e g by considering their personality and learning analytics that help augment learning opportunities e g by supporting the adaptation of the learning material In addition to technologies it covers methods from different fields such as educational psychology or medicine and from diverse communities co working with people such as making communities and participatory design communities to help create novel TEL opportunities Further it describes the use of methods and technologies to investigate and enhance learning for fragile users like children the elderly and those with special needs We thank the sponsors IEEE Systems Man and Cybernetics Society Spain Section Chapter and the IEEE Spain Section Technical Co Sponsor IBM Indra Viewnext Global exchange AEPIA APPIA and AIR institute **Mechanics of Structures and Materials XXIV** Hong Hao, Chunwei Zhang, 2019-08-08 *Mechanics of Structures and Materials Advancements and Challenges* is a collection of peer reviewed papers presented at the 24th Australasian Conference on the Mechanics of Structures and Materials ACMSM24 Curtin University Perth Western Australia 6 9 December 2016 The contributions from academics researchers and practising engineers from Australasian Asia pacific region and around the world cover a wide range of topics including Structural mechanics Computational mechanics Reinforced and prestressed concrete structures Steel structures Composite structures Civil engineering materials Fire

engineering Coastal and offshore structures Dynamic analysis of structures Structural health monitoring and damage identification Structural reliability analysis and design Structural optimization Fracture and damage mechanics Soil mechanics and foundation engineering Pavement materials and technology Shock and impact loading Earthquake loading Traffic and other man made loadings Wave and wind loading Thermal effects Design codes Mechanics of Structures and Materials Advancements and Challenges will be of interest to academics and professionals involved in Structural Engineering and Materials Science

**Mechanical Engineering and Materials Science** M.R. Xue, K.M. Li, M.H. Lee, X.Y. Zhang, 2014-12-31 Selected peer reviewed papers from the 2014 International Conference on Intelligent Mechanics and Materials Engineering ICIMME 2014 December 27 28 2014 Shenzhen China

**Advanced Materials and Structural Engineering** Jong Wan Hu, 2016-02-03 The ICAMEST 2015 Conference covered new developments in advanced materials and engineering structural technology Applications in civil mechanical industrial and material science are covered in this book Providing high quality scholarly research addressing developments applications and implications in the field of structural health monitoring construction safety and management sensors and measurements This volume contains new models for nonlinear structural analysis and applications of modeling identification Furthermore advanced chemical materials are discussed with applications in mechanical and civil engineering and for the maintenance of new materials In addition a new system of pressure regulating and water conveyance based on small and middle hydropower stations is discussed An experimental investigation of the ultimate strength and behavior of the three types of steel tubular K joints was presented Furthermore real time and frequency linear and nonlinear modeling performance of materials of structures contents were concluded with the notion of a fully brittle material and this approach is implemented in the book by outlining a finite element method for the prediction of the construction performance and cracking patterns of arbitrary structural concrete forms This book is an ideal reference for practicing engineers in material mechanical and civil engineering and consultants design construction maintenance and can also be used as a reference for students in mechanical and civil engineering courses

**Water Conservancy and Civil Construction Volume 1** Saheed Adeyinka Oke, Fauziah Ahmad, 2023-08-17 Water Conservancy and Civil Construction gathers the most cutting edge research on Water Conservancy Projects Civil Engineering Construction Technology and Process The book is aimed at academics and engineers in water and civil engineering

Handbook of Automated Scoring Duanli Yan, André A. Rupp, Peter W. Foltz, 2020-02-26 Automated scoring engines require a careful balancing of the contributions of technology NLP psychometrics artificial intelligence and the learning sciences The present handbook is evidence that the theories methodologies and underlying technology that surround automated scoring have reached maturity and that there is a growing acceptance of these technologies among experts and the public From the Foreword by Alina von Davier ACTNext Senior Vice President Handbook of Automated Scoring Theory into Practice provides a scientifically grounded overview of the key research efforts required to move

automated scoring systems into operational practice It examines the field of automated scoring from the viewpoint of related scientific fields serving as its foundation the latest developments of computational methodologies utilized in automated scoring and several large scale real world applications of automated scoring for complex learning and assessment systems The book is organized into three parts that cover 1 theoretical foundations 2 operational methodologies and 3 practical illustrations each with a commentary In addition the handbook includes an introduction and synthesis chapter as well as a cross chapter glossary **Metal Forming Processes** Kakandikar Ganesh Marotrao, Anupam Agrawal, D. Ravi Kumar, 2022-08-25

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