

Wednesday 12 June 2024 – Morning

**A Level in Design and Technology:
Design Engineering**

H404/02 Problem Solving in Design Engineering

Time allowed: 1 hour 45 minutes

You must have:

- the Resource Booklet

You can use:

- a ruler (cm/mm)
- a scientific calculator
- geometrical instruments



Please write clearly in black ink. Do not write in the barcodes.

Centre number

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Candidate number

--	--	--	--

First name(s)

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Last name

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INSTRUCTIONS

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided. You can use extra paper if you need to, but you must clearly show your candidate number, the centre number and the question numbers.
- Answer **all** the questions.
- Use the Resource Booklet to answer **all** the questions.
- Where appropriate, your answer should be supported with working. Marks might be given for using a correct method, even if your answer is wrong.
- Each question tells you which part of the Resource Booklet to use.

INFORMATION

- The total mark for this paper is **70**.
- The marks for each question are shown in brackets [].
- Quality of extended response will be assessed in questions marked with an asterisk (*).
- This document has **16** pages.

ADVICE

- Read each question carefully before you start your answer.

Ocr June 2mechanics Paper

Yicheng Fang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Ocr June 2mechanics Paper:

A Level Further Mathematics for OCR A Mechanics Student Book (AS/A Level) Jess Barker, Nathan Barker, Michele Conway, Janet Such, 2017-12-14 New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision Written for the OCR AS A Level Further Mathematics specification for first teaching from 2017 this print Student Book covers the Mechanics content for AS and A Level It balances accessible exposition with a wealth of worked examples exercises and opportunities to test and consolidate learning providing a clear and structured pathway for progressing through the course It is underpinned by a strong pedagogical approach with an emphasis on skills development and the synoptic nature of the course Includes answers to aid independent study English Mechanics and the World of Science, 1889 **Applied Mechanics Reviews**, 1969 **Rock Mechanics in Productivity and Protection** C. H. Dowding, Madan M. Singh, 1984 **Computational Fluid and Solid Mechanics 2005** Klaus-Jürgen Bathe, 2005 The MIT Conferences in Computational Fluid and Solid Mechanics are now established as the premier meeting place for industry and academia to come together and share ideas Distinguished and thought provoking keynote lectures cutting edge research results and directions for future research are presented in over 600 contributions The CD Rom version enables specialized searching across complete contents Contributing authors present results which address eight fundamental areas for research and development The automatic solution of mathematical models Effective numerical schemes for fluid flows The development of an effective mesh free numerical solution method The development of numerical procedures for multiphysics problems The development of numerical procedures for multiscale problems The modelling of uncertainties The analysis of complete life cycles of systems Education teaching sound engineering and scientific judgement Dimensions, 1969 *Numerical Methods in Geotechnical Engineering IX, Volume 2* António Cardoso, José Borges, Pedro Costa, António Gomes, José Marques, Castorina Vieira, 2018-06-27 Numerical Methods in Geotechnical Engineering IX contains 204 technical and scientific papers presented at the 9th European Conference on Numerical Methods in Geotechnical Engineering NUMGE2018 Porto Portugal 25 27 June 2018 The papers cover a wide range of topics in the field of computational geotechnics providing an overview of recent developments on scientific achievements innovations and engineering applications related to or employing numerical methods They deal with subjects from emerging research to engineering practice and are grouped under the following themes Constitutive modelling and numerical implementation Finite element discrete element and other numerical methods Coupling of diverse methods Reliability and probability analysis Large deformation large strain analysis Artificial intelligence and neural networks Ground flow thermal and coupled analysis Earthquake engineering soil dynamics and soil structure interactions Rock mechanics Application of numerical methods in the context of the Eurocodes Shallow and deep foundations Slopes and cuts Supported excavations and retaining walls Embankments and dams Tunnels and caverns and pipelines Ground improvement and reinforcement Offshore geotechnical

engineering Propagation of vibrations Following the objectives of previous eight thematic conferences 1986 Stuttgart Germany 1990 Santander Spain 1994 Manchester United Kingdom 1998 Udine Italy 2002 Paris France 2006 Graz Austria 2010 Trondheim Norway 2014 Delft The Netherlands Numerical Methods in Geotechnical Engineering IX updates the state of the art regarding the application of numerical methods in geotechnics both in a scientific perspective and in what concerns its application for solving practical boundary value problems The book will be much of interest to engineers academics and professionals involved or interested in Geotechnical Engineering This is volume 2 of the NUMGE 2018 set

The Commercial & Financial Chronicle and Hunt's Merchants' Magazine, 1872 *Cone Penetration Testing 2022* Guido Gottardi, Laura Tonni, 2022-06-24 This volume contains the proceedings of the 5th International Symposium on Cone Penetration Testing CPT 22 held in Bologna Italy 8 10 June 2022 More than 500 authors academics researchers practitioners and manufacturers contributed to the peer reviewed papers included in this book which includes three keynote lectures four invited lectures and 169 technical papers The contributions provide a full picture of the current knowledge and major trends in CPT research and development with respect to innovations in instrumentation latest advances in data interpretation and emerging fields of CPT application The paper topics encompass three well established topic categories typically addressed in CPT events Equipment and Procedures Data Interpretation Applications Emphasis is placed on the use of statistical approaches and innovative numerical strategies for CPT data interpretation liquefaction studies application of CPT to offshore engineering comparative studies between CPT and other in situ tests Cone Penetration Testing 2022 contains a wealth of information that could be useful for researchers practitioners and all those working in the broad and dynamic field of cone penetration testing

Geotechnical Engineering for Transportation Infrastructure F. B. J. Barends, 1999 **Bookseller and the Stationery Trades' Journal**, 1889 *Journal of Applied Mechanics*, 1945 **Frontiers in Offshore Geotechnics III** Vaughan Meyer, 2015-05-15 Frontiers in Offshore Geotechnics III comprises the contributions presented at the Third International Symposium on Frontiers in Offshore Geotechnics ISFOG Oslo Norway 10 12 June 2015 organised by the Norwegian Geotechnical Institute NGI The papers address current and emerging geotechnical engineering challenges facing those working in off

Field Hearings on the Education for All Handicapped Children Act United States. Congress. House. Committee on Education and Labor. Subcommittee on Select Education, 1981 **Soils and Foundations**, 2005 Landslides: Evaluation and Stabilization/Glisement de Terrain: Evaluation et Stabilisation, Set of 2 Volumes W. Lacerda, Mauricio Ehrlich, S.A.B. Fontoura, A.S.F. Sayao, 2004-06-15 These volumes comprise the Proceedings of the Ninth International Symposium on Landslides held in Rio de Janeiro Brazil from June 28 to July 2 2004 A wealth of the latest information on all aspects of landslide hazard encompassing geological modelling and soil and rock mechanics landslide processes causes and effects and damage avoidance and limitation strategies

Canadian Geotechnical Journal, 2011 **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and

Technology (U.S.),1993 **NYRocks '97** ,1997 **Geotechnical Aspects of Underground Construction in Soft Ground** Mohammed Elshafie, Giulia Viggiani, Robert Mair, 2021-05-10 Geotechnical Aspects of Underground Construction in Soft Ground comprises a collection of 112 papers the Fujita Lecture three Special Lectures and the Bright Spark Lecture presented at the Tenth International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground held in Cambridge United Kingdom 27-29 June 2022 This second edition includes four general reports on the symposium themes The symposium is the latest in a series which began in New Delhi in 1994 and was followed by symposia in London 1996 Tokyo 1999 Toulouse 2002 Amsterdam 2005 Shanghai 2008 Rome 2011 Seoul 2014 and Sao Paulo 2017 This was organised by the Geotechnical Research Group at the University of Cambridge under the auspices of the Technical Committee TC204 of the International Society for Soil Mechanics and Geotechnical Engineering ISSMGE Geotechnical Aspects of Underground Construction in Soft Ground includes contributions from more than 25 countries on research design and construction of underground works in soft ground The contributions cover Field case studies Sensing technologies and monitoring for underground construction in soft ground Physical and numerical modelling of tunnels and deep excavations in soft ground Seismic response of underground infrastructure in soft ground Design and application of ground improvement for underground construction Ground movements interaction with existing structures and mitigation measures The general reports give an overview of the papers submitted to the symposium covered in four technical sessions The proceedings include the written version of the five invited lectures covering topics ranging from developments in geotechnical aspects of underground construction tunnelling and groundwater interaction short and long term effects the influence of earth pressure balance shield tunnelling on pre convergence and segmental liner loading field observations modelling and implications on design Similar to previous editions Geotechnical Aspects of Underground Construction in Soft Ground represents a valuable source of reference on the current practice of analysis design and construction of tunnels and deep excavations in soft ground The book is particularly aimed at academics and professionals interested in geotechnical and underground engineering

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web identify control measures and ccps h haccp control measures under the voluntary haccp alternative you are required to implement haccp control measures if you