

Cork Institute of Technology

Higher Certificate in Engineering in Electrical Engineering—Stage 1

NFQ – Level 6

Summer 2006

Engineering Science

(Time: 3 Hours)

Instructions

Answer any FIVE questions.
All questions carry equal marks.

Examiners:

Mr. D. Polley
Mr. M. Hennessy
Prof. E. McQuade

$$v = u + at, \quad s = ut + \frac{1}{2} at^2, \quad v^2 = u^2 + 2as, \quad g = 9.81 \text{ ms}^{-2}$$

1.
 - (a) Convert 27.8 mV to volts and express it in *scientific notation* format. (2 marks)
 - (b) A deep-freezer display reads -16 °C . Express this in degrees Kelvin. (2 marks)
 - (c) Calculate the *momentum* of a 2 kg artillery shell moving at 50 ms⁻¹ (2 marks)
 - (d) Explain what is meant by the *significant figures* in a calculated result. (4 marks)
 - (e) Show, using an appropriate diagram, how the *refractive index*, n , of a transparent material is defined. (4 marks)
 - (f) In measurement science, what is the difference between *Accuracy* and *Precision* ? (6 marks)

2. A test vehicle starts from rest at point A and accelerates at 4 ms⁻² for 8 seconds to a point B. It then travels at constant speed for 12 seconds to a point C and then brakes gently at 2 ms⁻² before coming to rest at point D.
 - (i) Determine the total time taken for the whole journey from A to D. (4 marks)
 - (ii) Calculate the total distance covered from A to D using the equations of motion. (8 marks)
 - (iii) Sketch a simple velocity-time graph of the motion and verify that the *area* under the graph yields the same result for total distance as obtained in part (ii). (The graph does *not* need to be on graph paper but the axes should be marked off and labelled in a consistent fashion). (8 marks)

Engineering Science Past Exam Questions

Nick Arnold



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Higher Engineering Science William Bolton, 2012-08-21 Higher Engineering Science aims to provide students with an understanding of the scientific principles that underpin the design and operation of modern engineering systems. It builds a sound scientific foundation for further study of electronics, electrical engineering and mechanical engineering. The text is ideal for students including numerous features designed to aid student learning and put theory into practice. Worked examples with step by step guidance and hints. Highlighted key points, applications and practical activities. Self check questions included throughout the text. Problems sections with full answers supplied. Further worked examples, applications, case studies and assignments have also been incorporated into this second edition. Assuming a minimum of prior knowledge, the book has been written to suit courses with an intake from a range of educational backgrounds. The new edition has been designed specifically to cater for the compulsory core Engineering Science unit for HNC and HND qualifications and updated throughout to match the syllabus of the new BTEC Higher National Engineering schemes from Edexcel. It will also prove ideal for introductory science modules in degree courses. Transactions of the American Society of Civil Engineers American Society of Civil Engineers, 1916 Vols 29-30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A-F papers of the International Engineering Congress St Louis 1904. Giants of Engineering Science O. Anwar Bég, 2003. *Giants of Engineering Science* is a biographical monograph examining the life and works of ten of the world's leading engineering scientists. *The 6th Mechanical Engineering, Science and Technology (MEST 2022) International Conference* Taurista Perdana Syawitri, Dessy Ade Pratiwi, Umami Kultsum, Dediary Prasetya, Muttaqin Rahmat Pangaribawa, Tsulis Iqbal, Fadhilla Tri Nugrahaeni, Arinda Soraya Putri, Agus Dwi Anggono, 2023-04-16. This is an open access book. MEST2022 invites all potential authors from universities and various organisations to submit papers in the area of mechanical, manufacturing, materials, sciences and related interdisciplinary engineering fields. This conference is part of a conference program called International Summit on Science, Technology and Humanity ISETH 2022. Organized by Universitas Muhammadiyah Surakarta. The 6th Mechanical Engineering Science and Technology MEST2022 International conference is an annual event of the Mechanical Department of Universitas Muhammadiyah Surakarta. All possible writers from universities and other organizations are invited to submit papers. The conference is a forum for academic exchange that provides a prompt presentation of articles on experimental, numerical and theoretical studies that shed light on the critical topics of mechanical, thermal, fluid and aerothermodynamics, internal flow, heat and mass transfer, multiphase flow, turbulence, modelling, combustion, engineering, thermodynamics, thermophysical properties of matter, measurement and visualization techniques. Contributions range from intriguing and significant research immediately applicable to industry development or practice to high level student textbooks, explanations, distribution of technology and good practice. Internal Combustion Engineering: Science & Technology P.M. Weaving, 2012-12-06. Sir Diarmuid Downs CBE FEng FRS. Engineering is about

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Computational Intelligence in Engineering Science Ngoc Thanh Nguyen, Van Huy Pham, Trong Dao Tran, Tzung-Pei Hong, Yannis Manolopoulos, Nhien An Le Khac, Phu Tran Tin, 2025-07-22 This four volume set constitutes the refereed proceedings of the First International Conference on Computational Intelligence in Engineering Science ICCIES 2025 in Ho Chi Minh City Vietnam during July 23 25 2025 The 115 full papers presented in these proceedings were carefully reviewed and selected from 210 submissions The papers are organized in the following topical sections Part I Machine Learning Wireless Networks 6G Part II Computer Vision Natural Language Processing Part III Intelligent Systems Internet of Things Part IV Machine Learning Control Systems

Model-oriented Systems Engineering Science Duane W. Hybertson, 2016-04-19 Systems engineering SE is experiencing a significant expansion that encompasses increasingly complex systems However a common body of knowledge on how to apply complex systems engineering CSE has yet to be developed A combination of people and other autonomous agents crossing organization boundaries and continually changing these hybrid systems are less predictable while being more self organizing and adaptive than traditional systems The growing pains of this evolution and the ever widening reach of SE technology require an effective foundation for integrating traditional and complex engineering methods addressing machine and human interaction as well as scaling up and down from nano scale to the macro system of systems level Model oriented Systems Engineering Science A Unifying Framework for Traditional and Complex Systems addresses solutions to that expansion and integration problem This text takes advantage of better understood systems science SS to support the transition identifying and using commonalities between complex systems and other sciences such as biology sociology cognitive science organizational theory and computational science The author defines Model oriented Systems Engineering Science MOSES an organized

system that selects appropriate information from these disciplines and unifies it into a coherent framework The result is a seamless approach to the class of systems across the extended scope of the new SE a foundation upon which to develop an enhanced and unified SE Modeling orientation MO provides a common perspective on the entire SES SE enterprise including all supporting sciences engineering for the full range of traditional complex and hybrid systems and their management This book extends existing modeling approaches into an MO that views all science artifacts and engineering artifacts as models of systems It organizes them into a virtual structured repository called the SE model space effectively a container for the accumulating body of SE and SES knowledge in the form of models and patterns By organizing and integrating all these elements into a common framework the author makes the material not only easily accessible but also immediately applicable and provides a well grounded basis for future growth and evolution of the SE discipline

Probability with Applications in Engineering, Science, and Technology Matthew A. Carlton, Jay L. Devore, 2017-03-30 This updated and revised first course textbook in applied probability provides a contemporary and lively post calculus introduction to the subject of probability The exposition reflects a desirable balance between fundamental theory and many applications involving a broad range of real problem scenarios It is intended to appeal to a wide audience including mathematics and statistics majors prospective engineers and scientists and those business and social science majors interested in the quantitative aspects of their disciplines The textbook contains enough material for a year long course though many instructors will use it for a single term one semester or one quarter As such three course syllabi with expanded course outlines are now available for download on the book's page on the Springer website A one term course would cover material in the core chapters 1 4 supplemented by selections from one or more of the remaining chapters on statistical inference Ch 5 Markov chains Ch 6 stochastic processes Ch 7 and signal processing Ch 8 available exclusively online and specifically designed for electrical and computer engineers making the book suitable for a one term class on random signals and noise For a year long course core chapters 1 4 are accessible to those who have taken a year of univariate differential and integral calculus matrix algebra multivariate calculus and engineering mathematics are needed for the latter more advanced chapters At the heart of the textbook's pedagogy are 1 100 applied exercises ranging from straightforward to reasonably challenging roughly 700 exercises in the first four core chapters alone a self contained textbook of problems introducing basic theoretical knowledge necessary for solving problems and illustrating how to solve the problems at hand in R and MATLAB including code so that students can create simulations New to this edition Updated and re worked Recommended Coverage for instructors detailing which courses should use the textbook and how to utilize different sections for various objectives and time constraints Extended and revised instructions and solutions to problem sets Overhaul of Section 7 7 on continuous time Markov chains Supplementary materials include three sample syllabi and updated solutions manuals for both instructors and students

Biomedical Engineering Science and Technology Bikesh Kumar Singh, G.R. Sinha, Rishikesh Pandey, 2024-03-14 This CCIS

post conference volume constitutes the proceedings of the Second International Conference ICBEST 2023 in Raipur India in February 2023 The 32 full papers together in this volume were carefully reviewed and selected from 60 submissions The conference s fundamental theme was Computing in Biomedical Research They were organized in three tracks as follows Artificial Intelligence in Healthcare Computational Mechanics in Healthcare and Health Informatics **Experiment with Engineering** Nick Arnold,2022-05-17 In Experiment with Engineering Science you can take science out of the lab and into your home with this book of fun and engineering experiments to try

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