

# 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  $-16^\circ\text{C}$ . Express this in degrees Kelvin. (2 marks)
  - (c) Calculate the *momentum* of a 2 kg artillery shell moving at  $50 \text{ ms}^{-1}$ . (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  $4 \text{ ms}^{-2}$  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  $2 \text{ ms}^{-2}$  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 Npast Exam Papers

**Severino L. Koh, Charles G. Speziale**



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Engineering Science Mike Tooley, Lloyd Dingle, 2020-08-31 Focusing primarily on core topics in mechanical and electrical science students enrolled on a wide range of higher education engineering courses at undergraduate level will find Engineering Science second edition an invaluable aid to their learning With updated and expanded content this new edition covers sections on the mechanics of materials dynamics thermodynamics electrostatics and electromagnetic principles and a c d c circuit theory Entirely new sections are devoted to the study of gyroscopes and the effect of applied torques on their behaviour and the use of Laplace transformation as a tool for modelling complex networks of inductance capacitance and resistance In addition a new overview of the decibel dB introduces a handy technique for expressing logarithmic ratios Knowledge check and review questions along with activities are included throughout the book and the necessary background mathematics is integrated alongside the appropriate areas of engineering The result is a clear and easily accessible textbook that encourages independent study and covers the essential scientific principles that students will meet at this level The book is supported with a companion website for students and lecturers at [www.key2engineeringsscience.com](http://www.key2engineeringsscience.com) and it includes Solutions to the Test Your Knowledge and Review Questions in the book Further guidance on Essential Mathematics with introductions to vectors vector operations the calculus and differential equations etc An extra chapter on steam properties cycles and plant Downloadable SCILAB scripts that help simplify some of the advanced mathematical content Selected illustrations from the book      *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

**The Rise of Engineering Science** David F. Channell, 2018-07-10 The 18th and 19th centuries saw the emergence of new intermediary types of knowledge in areas such as applied mechanics fluid mechanics and thermodynamics which came to be labeled as engineering science transforming technology into the scientific discipline that we know today This book analyzes how the Scientific Revolution of the 16th and 17th centuries and the Industrial Revolution of the 18th and 19th centuries provided the intellectual social economic and institutional foundations for the emergence of engineering science The book then traces the rise of engineering science from the 18th century through the 19th century and concludes by showing how it led to new technological developments in such areas as steel production the invention of internal combustion engines the creation of automobiles and airplanes and the formulation of Mass Production and Scientific Management all of which brought about major transformations in the materials power sources transportation and production techniques that have come to shape our modern world [Annual Catalogue](#) United States Air Force Academy, 1985 [United States Air Force Academy](#) United States Air Force Academy, [Simultaneous Mass Transfer and Chemical Reactions in Engineering Science](#) Bertram K. C. Chan, 2023-01-30 Simultaneous Mass Transfer and Chemical Reactions in Engineering Science A comprehensive look at the basic science of diffusional process and mass transfer Mass transfer as a principle is an essential part of numerous unit operations in biomolecular chemical and process engineering crystallization distillation and membrane separation processes for example use this important method Given this significance particularly in engineering design where these processes occur understanding the design and analysis of such unit operations must begin with a basic understanding of how simultaneous mass transfer and the chemical reactions that influence these occurrences It is also vital to be aware of the most up to date technologies for analyzing and predicting the

phenomena Given the significance of this process Simultaneous Mass Transfer and Chemical Reactions in Engineering Science is an important resource as it introduces the reader to the complex subject of simultaneous mass transfer with biochemical and chemical reactions and gives them the tools to develop an applicable design Analyzing the systems of simultaneous mass transfer and reactions is at the core of this book as all known design approaches are carefully examined and compared The volume also provides the reader with a working knowledge of the latest technologies with a special focus on the open sourced computer programming language R and how these tools are an essential resource in quantitative assessment in analysis models Simultaneous Mass Transfer and Chemical Reactions in Engineering Science provides a working knowledge of the latest information on simultaneous mass transfer and reactions by focusing on the analysis of this process as well as discussing the existence and distinctive quality of the solutions to the Simultaneous Mass Transfer and Chemical Reactions in Engineering Science readers will also find A theoretical basis of each design model that is carefully stated compared and assessed Carefully developed and established Existence and Uniqueness Theorems for a general design model Comprehensive coverage of how the programming language R may be used to analyze models Numerous examples and case studies that provide a working knowledge of simultaneous mass transfer and reactions Simultaneous Mass Transfer and Chemical Reactions in Engineering Science is a useful reference for students in chemical engineering biotechnology or chemistry as well as professional process and chemical engineers

**Emerging Trends in Engineering, Science and Technology for Society, Energy and Environment** Rajesh Vanchipura,K.S. Jiji,2018-08-06 The International Conference on Emerging Trends in Engineering Science and Technology ICETEST was held at the Government Engineering College Thrissur Kerala India from 18th to 20th January 2018 with the theme Society Energy and Environment covering related topics in the areas of Civil Engineering Mechanical Engineering Electrical Engineering Chemical Engineering Electronics Communication Engineering Computer Science and Architecture Conflict between energy and environment has been of global significance in recent years Academic research needs to support the industry and society through socially and environmentally sustainable outcomes ICETEST 2018 was organized with this specific objective The conference provided a platform for researchers from different domains to discuss and disseminate their findings Outstanding speakers faculties and scholars from different parts of the world presented their research outcomes in modern technologies using sustainable technologies

*The 6th Mechanical Engineering, Science and Technology (MEST 2022) International Conference* Taurista Perdana Syawitri,Dessy Ade Pratiwi,Ummi 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 the Mechanical Department of Universitas Muhammadiyah Surakarta event 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

**Oswaal GATE Year-wise 15 Years' Solved Papers 2010 to 2024 | Engineering Mathematics For 2025 Exam** Oswaal Editorial Board,2024-03-27 Description of the Product 100% Exam Ready With 2024 Papers All 8 Shifts Fully Solved Concept Clarity Learn key Concepts through Mind Map Explanations Extensive Practice With 1000 Questions 2 Sample Papers 100% Exam Readiness With the Latest Previous Years Trend Analysis 2017 2024 Valuable Exam Insights With Tips Tricks to ace GATE Exam in 1st attempt

**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,2025-07-18 This four volume set constitutes the refereed proceedings of the First International Conference on 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

**CREST-M: Children using Robotics for Engineering, Science, Technology and Math** Dr. Steve Coxon ,Dr. Rebecca Dohrman,Gretchen Roberts ,Jaime Gilligan,Kristine Forbes,Greg Grunst,2019-10-01 A STEM unit aligned with mathematics Common Core State Standards in multiplication and robotics for elementary students To use this curriculum students will need access to LEGO WeDo 2 0 Robotics kits The development of this curriculum was funded by the Bayer Fund and was developed and evaluated by the MySci program at Washington University and Maryville University in St Louis Missouri

*Recent Advances in Engineering Science* Severino L. Koh,Charles G. Speziale,2012-12-06 The 25th Anniversary Meeting of the Society of Engineering Science was held as a joint conference with the Applied Mechanics Division of the American Society of Mechanical Engineers at the University of California Berkeley from June 20 22 1988 With the encouragement and support of the SES we decided to organize a symposium in honor of A C Eringen the founding president of the Society of Engineering Science who provided pioneering leadership during the critical first decade of the Society s existence We felt that there was no better way to do this than with a Symposium on Engineering Science the field that A C Eringen has devoted his life to Professor Eringen had the foresight even in his own early work to see the need for an

intimate amalgamation of engineering and science transcending the bounds of the traditional engineering disciplines to address unsolved problems of technological importance Sustained by the belief that there was the need to provide a forum for researchers who had embraced this broader interdisciplinary approach Professor Eringen founded the Society of Engineering Science and the International Journal of Engineering Science in 1963 Since that time he has made countless contributions to the advancement of engineering science through his research educational and organizational activities The participants in the Symposium were former students and colleagues of Professor Eringen who have been strongly influenced by his professional activities and research in engineering science

**Engineering** ,1866 **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 **Annual Catalog - United States Air Force Academy** United States Air Force Academy,1979 Engineering, Science, and Sustainability Dimitrios A Karras,Sai Kiran Oruganti,Sudeshna Ray,2023-09-28 ISC 2022 is dedicated to the Niti Aayog policies to promote sustainability through exchange of ideas emerging out of the academia The ISC is an annual conference that is held in virtual mode until COVID restrictions on travel exist The vision of the conference is to capacitate Academia with the necessary ideas that provide insights of the grassroot level development to various stakeholders of the Niti Aayog policies Towards this goal the conference creates a conjunction of various stakeholders of Niti Aayog policies that include academic institutions government bodies policy makers and industry The ISC organizers make concerted efforts to promote academic research that would technological scientific management business practices and insights into policy merits disruptions The framework of exchange of ideas is geared towards adoption of deep technologies fundamental sciences engineering energy research energy policies advances in medicine related case studies This framework enables the round table discussions between the academia industry and policy makers through its range of plenary and keynote speakers

*Changing Assessments* Bernard R. Gifford,Mary Catherine O'Connor,2012-12-06 Bernard R Gifford As we edge toward the year 2000 the information age is a reality the global marketplace is increasingly competitive and the U S labor force is shrinking Today more than ever our nation s economic and social well being hinges on our ability to tap our human resources to identify talent to nurture it and to assess abilities and disabilities in ways that help every individual reach his or her full potential In pursuing that goal decision makers in education industry and government are relying increasingly on standardized tests sets of question with identical directions time limits and tasks for all test takers designed to permit an inference about what someone knows or can do in a particular area CALIBRATING DIFFERENCE Our emphasis on standardized testing rests on a premise that is so basic it often escapes notice that we humans are different from each other in ways that are both meaningful and measurable We differ in terms of cognitive ability aptitude for performing different kinds of mental and physical tasks temperament and interests But somehow without sufficient examination we have taken a great collective leap from that commonplace to the notion that

there are precise measurable gradations of innate ability that can be used to direct children to the right classrooms and adults to the right job slots



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