

Fourth Semester B.E. Degree Examination, June/July 2014

Engineering Mathematics – IV

Time: 3 hrs.

Max. Marks: 100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART – A

1.
 - a. Obtain a solution upto the third approximation of y for $x = 0.2$ by Picard's method, given that $\frac{dy}{dx} + y = e^x$; $y(0) = 1$. (06 Marks)
 - b. Apply Runge-Kutta method of order 4, to find an approximate value of y for $x = 0.2$ in steps of 0.1, if $\frac{dy}{dx} = x + y^2$ given that $y = 1$ when $x = 0$. (07 Marks)
 - c. Using Adams-Bashforth formulae, determine $y(0.4)$ given the differential equation $\frac{dy}{dx} = \frac{1}{2}xy$ and the data, $y(0) = 1$, $y(0.1) = 1.0025$, $y(0.2) = 1.0101$, $y(0.3) = 1.0228$. Apply the corrector formula twice. (07 Marks)
2.
 - a. Apply Picard's method to find the second approximation to the values of ' y ' and ' z ' given that $\frac{dy}{dx} = z$, $\frac{dz}{dx} = x^3(y + z)$, given $y = 1$, $z = \frac{1}{2}$ when $x = 0$. (06 Marks)
 - b. Using Runge-Kutta method, solve $\frac{d^2y}{dx^2} - x\left(\frac{dy}{dx}\right)^2 + y^2 = 0$ for $x = 0.2$ correct to four decimal places. Initial conditions are $x = 0$, $y = 1$, $y' = 0$. (07 Marks)
 - c. Obtain the solution of the equation $\frac{2d^2y}{dx^2} = 4x + \frac{dy}{dx}$ at the point $x = 1.4$ by applying Milne's method given that $y(1) = 2$, $y(1.1) = 2.2156$, $y(1.2) = 2.4649$, $y(1.3) = 2.7514$, $y'(1) = 2$, $y'(1.1) = 2.3178$, $y'(1.2) = 2.6725$ and $y'(1.3) = 3.0657$. (07 Marks)
3.
 - a. Define an analytic function in a region R and show that $f(z)$ is constant, if $f(z)$ is an analytic function with constant modulus. (06 Marks)
 - b. Prove that $u = x^2 - y^2$ and $v = \frac{y}{x^2 + y^2}$ are harmonic functions of (x, y) but are not harmonic conjugate. (07 Marks)
 - c. Determine the analytic function $f(z) = u + iv$, if $u - v = \frac{\cos x + \sin x - e^{-y}}{2(\cos x - \cosh y)}$ and $f(\pi/2) = 0$. (07 Marks)
4.
 - a. Find the images of the circles $|z| = 1$ and $|z| = 2$ under the conformal transformation $w = z + \frac{1}{z}$ and sketch the region. (06 Marks)
 - b. Find the bilinear transformation that transforms the points $0, i, \infty$ onto the points $1, -i, -1$ respectively. (07 Marks)
 - c. State and prove Cauchy's integral formula and hence generalized Cauchy's integral formula. (07 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42/8 = 50, will be treated as malpractice.

Mechanical Technology Question Paper 2014

Ying Liu



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Manufacturing Technology - I Anup Goel,2021-01-01 Manufacturing Technology I is a branch of mechanical engineering which involves transformation of raw materials from its original state to a finished product by changing its shape and few properties in a series of steps Not all manufacturing processes can produce a product easily economically and with good quality Each process is generally categorised by some advantages and limitations over the other processes This subject gives information about the different joining methods for metals different plastic moulding techniques and sheet metal processes It also includes different forming techniques and casting processes Our hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge

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2019 Monthly Current Affairs with MCQs for Competitive Exams Disha Experts,2019-08-04 October 2019 Monthly

Current Affairs with MCQs for Competitive Exams Disha Experts,2019-09-25 **Environmental Mechanochemistry** Matej Baláž,2021-10-22 This book provides a comprehensive overview on mechanochemistry including its history high energy ball milling process equipment used and fundamentals behind the observed scientific phenomena It also shows that mechanochemistry is highly applicable in the field of waste treatment The text reviews 1017 studies utilizing mostly high energy ball milling for the treatment of various types of consumer technogenic and agricultural waste The text is divided into chapters based on individual waste types The book presents an Appendix compiling all studies arranged according to the application that the recycled waste is meant for In this way readers from both academia and companies interested either in the treatment of a particular waste or particular application might easily locate sections of interest International
Conference on Energy and Power Engineering (EPE2014) ,2014-06-24 The 2014 International Conference on Energy and Power Engineering EPE2014 will be held on April 26 27 2014 in Hong Kong China The aim of this international convention is to bring together experts and scholars from around the world and offer them a chance to share the latest research results in the field of Energy and Power Engineering We all know that over the past few decades a great change has happened in the field of the environment technology and the science technology is growing faster and faster In order to keep up with the daily changing situation we have sent invitations to experts scholars and other people who have devoted himself in related fields and it is a great honor to us that most of them have accepted our invitation and supported the EPE2014 with their latest studies Up till now we have received over three hundred papers from various countries this shows that there has been a growing interest in the field of energy and power engineering Among those papers received we have eventually chosen about a hundred to be presented and included in this proceeding These papers generally represented the current research status in this field and the future trend We sincerely believe that these papers could be valuable to the future work of yours Finally on behalf of the committee I would like to deeply express our gratitude to those who have supported the EPE2014 especially the international experts who helped reviewing papers the DEStech Publications help publish the conference proceedings and

last but not least the authors of these inspiring papers Without the help from these people EPE2014 would not be as half successful as it is now Here welcome to EPE2014 and let s hope that it will be a great success Tim Chou

Plane Crash

George Bibel,Captain Robert Hedges,2018-03-14 Melding a pilot s practical view of life in the cockpit with the expertise of an engineering professor to give readers an insider look at plane crashes One of the most amazing feats of modern life is the frequency with which airplanes safely take off and land about 40 000 times a day in the United States alone Commercial aviation is by far the safest mode of transportation and is becoming safer all the time But on the exceedingly rare occasion that a plane does crash comprehensive accident analysis thorough investigation and implementation of remedial actions significantly reduces the probability of an already remote event ever recurring Plane Crash an unprecedented collaboration between mechanical engineering professor George Bibel and airline Captain Robert Hedges shares the riveting stories of both high profile and lesser known airplane accidents Drawing on accident reports eyewitness accounts and simple diagrams to explain what went wrong in the plane and in the cockpit Hedges provides invaluable insight into aviation human factors while Bibel analyzes mechanical failures No prior scientific knowledge is needed to understand the principles and procedures this book describes only an interest in the view from what Captain Hedges describes as the best seat in the house Organized around the phases of flight takeoff climb cruise approach and landing this book is a captivating look at some of the most dramatic plane crashes of the modern age including Asiana Airlines 214 Air France 447 and Malaysia Airlines 370 If you have ever wondered what goes through a pilot s mind as a flight takes a turn for the dangerous what impact turbulence actually has on flight safety or even just how the wonders of aeronautics work to keep passengers safe day in and out Plane Crash will both fascinate and educate

Pharmaceutical Inhalation Aerosol Technology, Third Edition Anthony J. Hickey,Sandro R. da Rocha,2019-03-26 This fully revised and updated third edition of Pharmaceutical Inhalation Aerosol Technology encompasses the scientific and technical foundation for the rationale design componentry assembly and quality performance metrics of therapeutic inhalers in their delivery of pharmaceutical aerosols to treat symptoms or the underlying causes of disease It focuses on the importance of pharmaceutical engineering as a foundational element of all inhaler products and their application to pulmonary drug delivery The expanded scope considers previously unaddressed aspects of pharmaceutical inhalation aerosol technology and the patient interface by including aerosol delivery lung deposition and clearance that are used as measures of effective dose delivery Key Features Provides a thoroughly revised and expanded reference with authoritative discussions on the physiologic pharmacologic metabolic molecular cellular and physicochemical factors influencing the efficacy and utilization of pharmaceutical aerosols Emphasizes the importance of pharmaceutical engineering as a foundational element of all inhaler products and their application to pulmonary drug delivery Addresses the physics chemistry and engineering principles while establishing disease relevance Expands the technology focus of the original volumes to address the title more directly Offers an impressive breadth of coverage as well as an international flavour from

outstanding editors and contributors *SSC JE Mechanical Engineering (Paper 1) | 8 Full-length Mock Tests + 3 Previous Year Papers (2200+ Solved Questions)* EduGorilla Prep Experts, 2022-08-03 Best Selling Book for SSC JE Mechanical Engineering Paper 1 with objective type questions as per the latest syllabus given by the SSC Compare your performance with other students using Smart Answer Sheets in EduGorilla's SSC JE Mechanical Engineering Paper 1 Practice Kit SSC JE Mechanical Engineering Paper 1 Preparation Kit comes with 11 Tests 8 Full length Mock Tests 3 Previous Year Papers with the best quality content Increase your chances of selection by 14X SSC JE Mechanical Engineering Paper 1 Prep Kit comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts **Wearable Technology in Elite Sport** John Toner, 2023-08-15 Wearable devices are being used by an increasing number of elite level sports teams to manage and control the health performance and productivity of their athletes Drawing upon a wide range of interdisciplinary resources Wearable Technology in Elite Sport reveals how wearable devices are used to quantify athletic bodies in ways that have a number of undesirable consequences for the embodied subject This book identifies some of the problematic consequences of excessive dataveillance in sport by interrogating the process by which wearable data is produced represented and enacted in the governance of athletic behaviour The book provides a set of conceptual resources for thinking critically about the powerful role played by measurement systems in shaping athletic embodiment The themes that this book examines include an exploration of how technological devices serve an important disciplinary function in elite sport and how wearable derived data might act to affect high level athletes The book is written in a lively and accessible style and appeals to a broad academic readership including undergraduate and postgraduate students in a range of fields including sports science coaching digital health sociology information studies and science and technology studies *International Conference Machinery, Electronics and Control Simulation* Li Wang, 2014-09-26 Selected peer reviewed papers from the International Conference on Machinery Electronics and Control Simulation ICMECS 2014 September 27 28 2014 Weihai Shandong Province China **The Oxford Handbook of Media, Technology, and Organization Studies** Timon Beyes, Robin Holt, Claus Pias, 2020 This Handbook explores the largely uncharted territory of media technology and organization studies and interrogates their foundational relations their forms and their consequences The chapters consider how specific mediating technological objects such as the Clock or the Smartphone help us to create organizational form

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web appendix e adopt a convention for reporting growth norms that is conditional on starting rit scores starting rit scores corresponding to 19 evenly spaced quantiles of the pre test score distribution are employed the percentiles were selected to detect smaller changes around the center of the distribution relative to those toward the tails

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web the rit scores defining each level are separated by 1 2 standard deviation except for the lowest and highest levels which are set at the 5th and 95th percentiles respectively at all levels consider differentiated instruction flexible grouping or tiered instruction

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web the median rit scores were calculated across states for each subject and grade and were then converted to percentiles based on the 2020 norms given that the estimated rit scores contain measurement error the confidence interval for the median rit scores were constructed based on 2 standard errors of measurement sems sem

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