

THIRD SEMESTER B.TECH DEGREE EXAMINATION
(2013Scheme)

13.303 MECHANICAL TECHNOLOGY (P)

MODEL QUESTION PAPER

Time: 3Hours

Max. Marks: 100

Instructions: Use of Approved data books is permitted.

Part-A

Answer all questions

1. Define thermal conductivity. How does it vary with temperature?
2. Define thermal resistance. How does it vary from electrical resistance?
3. State Buckingham's Pi theorem. Mention its advantages.
4. Define absorptivity, reflectivity and transmissivity. Obtain the relation between them.
5. What are the different efficiencies of IC engines?
6. Differentiate between LMTD and NTU with reference to heat exchangers.
7. With the help of P-v diagram, state the advantages of intercooling in reciprocating air compressors.
8. What is meant by maximum specific work output with reference to Gas turbines?
9. What are refrigerants? How are they designated?
10. Define GSHE with the help of Psychrometric chart.

(2Marks $\times$ 10= 20 Marks)

Part-B

Answer any one full question from each module

MODULE-I

11. a) Derive an expression for general heat conduction in Cartesian co-ordinate. What are the assumptions for the same?
b) The thermal conductivity of insulating material used over 20cm diameter pipe carrying hot gases varies as $k = 0.065(1 + 15 \times 10^{-4} T)$ W/m- $^{\circ}$ C where T is in $^{\circ}$ C. The pipe surface temperature is 250° C and insulation outer surface temperature is 60° C. Find the heat flow through the pipe and the temperature at mid -thickness of insulation.
12. a) Establish the functional relation $Nu = f(Re, Pr)$ for forced convection heat transfer with the help of dimensional analysis.

Mechanical Technology Question Paper For 2014 Grade11

Saheed Adeyinka Oke,Fauziah Ahmad



Mechanical Technology Question Paper For 2014 Grade11:

The Egyptian Oracle Project Robyn Gillam,Jeffrey Jacobson,2015-07-30 For more than 2 000 years between 1500 BCE and 600 CE the Egyptian processional oracle was one of the main points of contact between temple based religion and the general population In a public ceremony a god would indicate its will or answer questions through the movements of a portable cult statue borne by priests or important members of the community The Egyptian Oracle Project is an interactive performance that adapts this ceremony to serve as the basis for a mixed reality educational experience for children and young adults using both virtual reality and live performance The scene is set in a virtual Egyptian temple projected onto a wall An oracle led by a high priest avatar controlled by a live human puppeteer is brought into the presence of a live audience who act in the role of the Egyptian populace Through the mediation of an actress the audience interacts with the avatar recreating the event The series of carefully focused essays in this book provides vital background to this path breaking project in three sections After a brief introduction to educational theatre and virtual reality the first section describes the ancient ceremony and its development along with cross cultural connections Then the development of the script and its performance in the context of mixed reality and educational theatre are examined The final set of essays describes the virtual temple setting in more detail and explores the wider implications of this project for virtual heritage *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 **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

Foundations and Trends in Smart Learning Maiga Chang, Elvira Popescu, Kinshuk, Nian-Shing Chen, Mohamed Jemni, Ronghuai Huang, J. Michael Spector, Demetrios G. Sampson, 2019-03-14 This book focuses on the interplay between pedagogy and technology and their fusion for the advancement of smart learning environments It discusses various components of this interplay including learning and assessment paradigms social factors and policies emerging technologies innovative application of mature technologies transformation of curriculum and teaching behavior transformation of administration best infusion practices and piloting of new ideas The book provides an archival forum for researchers academics practitioners and industry professionals interested and or engaged in reforming teaching and learning methods by promoting smart learning environments It also facilitates discussions and constructive dialogue among various stakeholders on the limitations of existing learning environments the need for reform innovative uses of emerging pedagogical approaches and technologies and sharing and promoting best practices leading to the evolution design and implementation of smart learning environments *Middle Grades Research Journal* Frances R. Spielhagen, 2014-10-01 Middle Grades Research Journal MGRJ is a refereed peer reviewed journal that publishes original studies providing both empirical and theoretical frameworks that focus on middle grades education A variety of articles are published quarterly in March June September and December of each volume year *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 **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 Applied Science, Materials Science and Information Technologies in Industry D.L. Liu,X.B. Zhu,K.L. Xu,D.M. Fang,2014-02-06 Selected peer reviewed papers from the 2014 International

Conference on Advances in Materials Science and Information Technologies in Industry AMSITI 2014 January 11 12 2014 Xi an China *Metal Forming Processes* Kakandikar Ganesh Marotrao,Anupam Agrawal,D. Ravi Kumar,2022-08-25 Metal

forming processes include bulk forming and sheet metal forming with numerous applications This book covers some of the latest developments aspects of these processes such as numerical simulations to achieve optimum combinations and to get insight into process capability Implementation of new technologies to improve performance based on Computer Numerical Control CNC technologies are also discussed including the use of CAD CAM CAE techniques to enhance precision in manufacturing Applications of AI ML the Internet of Things IoT and the role of tribological aspects in green engineering are included to suit Industry 4 0 Features Covers latest developments in various sheet metal forming processes Discusses improvements in numerical simulation with various material models Proposes improvements by optimum combination of process parameters Includes finite element simulation of processes and formability Presents a review on techniques to produce ultra fine grained materials This book is aimed at graduate students engineers and researchers in sheet metal forming materials processing and their applications finite element analysis manufacturing and production 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 Progress in Applied Sciences, Engineering and Technology Pei Long Xu, Hong Zong Si, Yi Qian Wang, Pin Wang, 2014-05-23 Selected peer reviewed papers from the 2014 International Conference on Materials Science and Computational Engineering ICMSCE 2014 May 20 21 2014 Qingdao China *Proceedings of the 23rd International Conference on Industrial Engineering and Engineering Management 2016* Ershi Qi, Jiang Shen, Runliang Dou, 2017-03-07 International Conference on Industrial Engineering and Engineering Management is sponsored by Chinese Industrial Engineering Institution CMES which is the unique national level academic society of Industrial Engineering The conference is held annually as the major event in this area Being the largest and the most authoritative international academic conference held in China it supplies an academic platform for the experts and the entrepreneurs in International Industrial Engineering and Management area to exchange their research results Many experts in various fields from China and foreign countries gather together in the conference to review exchange summarize and promote their achievements in Industrial Engineering and Engineering Management fields Some experts pay special attention to the current situation of the related techniques application in China as well as their future prospect such as Industry 4.0 Green Product Design Quality Control and Management Supply Chain and logistics Management to cater for the purpose of low carbon energy saving and emission reduction and so on They also come up with their assumption and outlook about the related techniques development The proceedings will offer theatrical methods and technique application cases for experts from college and university research institution and enterprises who are engaged in theoretical research of Industrial Engineering and Engineering Management and its technique s application in China As all the papers are feathered by higher level of academic and application value they also provide research data for foreign scholars who occupy themselves in investigating the enterprises and engineering management of Chinese style **Springer**

Handbook of Wood Science and Technology Peter Niemz, Alfred Teischinger, Dick Sandberg, 2023-04-01 This handbook provides an overview on wood science and technology of unparalleled comprehensiveness and international validity It describes the fundamental wood biology chemistry and physics as well as structure property relations of wood and wood based materials The different aspects and steps of wood processing are presented in detail from both a fundamental technological perspective and their realisation in industrial contexts The discussed industrial processes extend beyond sawmilling and the manufacturing of adhesively bonded wood products to the processing of the various wood based materials including pulp and paper natural fibre materials and aspects of bio refinery Core concepts of wood applications quality and life cycle assessment of this important natural resource are presented The book concludes with a useful compilation of fundamental material parameters and data as well as a glossary of terms in accordance with the most important industry standards Written and edited by a truly international team of experts from academia research institutes and industry thoroughly reviewed by external colleagues this handbook is well attuned to educational demands as well as providing a

summary of state of the art research trends and industrial requirements It is an invaluable resource for all professionals in research and development and engineers in practise in the field of wood science and technology Scientific and Technical Aerospace Reports ,1973 *Computational and Experimental Approaches on Soft Tissues Biomechanics and Mechanobiology* Lei Fan,Ge He,Lei Wang,Yih-Kuen Jan,2025-06-19 Soft tissues which encompass all organs of the body such as the brain muscles and tendons play a crucial role in maintaining the normal function in the human body Understanding the biomechanics and mechanobiology of these tissues by integrating computational and experimental approaches is essential for advancing the clinical treatments medical device development and overall healthcare This topic outlines multidisciplinary research on understanding soft tissues biomechanics and mechanobiology under various physiological and pathological conditions The proposed topic aims to combine experimental and computational methods to gain insights into the complex mechanical behaviors of soft tissues To achieve this goal this Research Topic will focus on some specific objectives like developing novel computational models to elucidate soft tissue behavior and quantifying the effects of diseases characterizing soft tissue properties by advancing experimental techniques such as tissue testing imaging and microscale analysis This will help in characterizing the mechanical properties and structural behavior of various soft tissues under both physiological and pathological conditions We welcome the studies that investigates mechanobiological processes such as tissue remodeling adaption and injury by integrating computational models with experimental data to gain insights into mechanical behavior The studies that apply the findings from this research to improve clinical applications such as subject specific treatment development of medical devices and regenerative medicine This topic will also cover the interdisciplinary research by integrating biomechanics biology engineering clinical studies and imaging techniques Computational modeling development Machine learning applications Experimental characterization Imaging processing techniques Mechanobiological processes Disease mechanisms Application in clinical treatments and medical devices **Insights and Innovations in Structural Engineering, Mechanics and Computation** Alphose Zingoni,2016-11-25 Insights and Innovations in Structural Engineering Mechanics and Computation comprises 360 papers that were presented at the Sixth International Conference on Structural Engineering Mechanics and Computation SEMC 2016 Cape Town South Africa 5 7 September 2016 The papers reflect the broad scope of the SEMC conferences and cover a wide range of engineering structures buildings bridges towers roofs foundations offshore structures tunnels dams vessels vehicles and machinery and engineering materials steel aluminium concrete masonry timber glass polymers composites laminates smart materials Daily Graphic Ransford Tetteh,2014-09-12 **Robotics in Education** Munir Merdan,Wilfried Lepuschitz,Gottfried Koppensteiner,Richard Balogh,David Obdržálek,2019-08-06 This proceedings book gathers the latest achievements and trends in research and development in educational robotics from the 10th International Conference on Robotics in Education RiE held in Vienna Austria on April 10 12 2019 It offers valuable methodologies and tools for robotics in education that encourage learning in

the fields of science technology engineering arts and mathematics STEAM through the design creation and programming of tangible artifacts for creating personally meaningful objects and addressing real world societal needs It also discusses the introduction of technologies ranging from robotics platforms to programming environments and languages and presents extensive evaluations that highlight the impact of robotics on students interests and competence development The approaches included cover the entire educative range from the elementary school to the university level in both formal and informal settings

Risk, Reliability and Safety: Innovating Theory and Practice Lesley Walls, Matthew Revie, Tim Bedford, 2016-11-25 The safe and reliable performance of many systems with which we interact daily has been achieved through the analysis and management of risk From complex infrastructures to consumer durables from engineering systems and technologies used in transportation health energy chemical oil gas aerospace maritime defence and other sectors the management of risk during design manufacture operation and decommissioning is vital Methods and models to support risk informed decision making are well established but are continually challenged by technology innovations increasing interdependencies and changes in societal expectations Risk Reliability and Safety contains papers describing innovations in theory and practice contributed to the scientific programme of the European Safety and Reliability conference ESREL 2016 held at the University of Strathclyde in Glasgow Scotland 25-29 September 2016 Authors include scientists academics practitioners regulators and other key individuals with expertise and experience relevant to specific areas Papers include domain specific applications as well as general modelling methods Papers cover evaluation of contemporary solutions exploration of future challenges and exposition of concepts methods and processes Topics include human factors occupational health and safety dynamic and systems reliability modelling maintenance optimisation uncertainty analysis resilience assessment risk and crisis management

Studying Visual and Spatial Reasoning for Design Creativity John S. Gero, 2014-11-09 Creativity and design creativity in particular are being recognized as playing an increasing role in the social and economic wellbeing of a society As a consequence creativity is becoming a focus of research However much of this burgeoning research is distributed across multiple disciplines that normally do not intersect with each other and researchers in one discipline are often unaware of related research in another discipline This volume brings together contributions from design science computer science cognitive science and neuroscience on studying visual and spatial reasoning applicable to design creativity The book is the result of a unique NSF funded workshop held in Aix en Provence France The aim of the workshop and the resulting volume was to allow researchers in disparate disciplines to be exposed to the other s research research methods and research results within the context of design creativity Fifteen of the papers presented and discussed at the workshop are contained in this volume The contributors come from Germany Israel Netherlands Poland Singapore UK and USA indicating the international spread of the research presented in this volume

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