

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

Michal Rosen-Zvi



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

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

Neurorehabilitation Technology David J. Reinkensmeyer, Volker Dietz, 2016-08-03 This revised updated second edition provides an accessible practical overview of major areas of technical development and clinical application in the field of neurorehabilitation movement therapy The initial section provides a rationale for technology application in movement therapy by summarizing recent findings in neuroplasticity and motor learning The following section then explains the state of the art in human machine interaction requirements for clinical rehabilitation practice Subsequent sections describe the ongoing revolution in robotic therapy for upper extremity movement and for walking and then describe other emerging technologies including electrical stimulation virtual reality wearable sensors and brain computer interfaces The promises and limitations of these technologies in neurorehabilitation are discussed Throughout the book the chapters provide detailed practical information on state of the art clinical applications of these devices following stroke spinal cord injury and other neurologic disorders The text is illustrated throughout with photographs and schematic diagrams which serve to clarify the information for the reader

Neurorehabilitation Technology Second Edition is a valuable resource for neurologists biomedical engineers roboticists rehabilitation specialists physiotherapists occupational therapists and those training in these fields

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

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

Human Resource Management R. C. Sharma, Nipun Sharma, 2024-09-30 This textbook introduces readers to an array of concepts and current practices of human resource management HRM It provides an understanding of the current problems in the area that require pragmatic research and realistic solutions Using a blend of diverse concepts theories tools and techniques the book discusses contemporary practices of HRM and the challenges related to acquiring and training people human resource development compensation and reward employee relations technological changes HR records audit research and more Supported by the authors rich experience of over five decades in academics as well as in the corporate sector and case studies the book will enhance conceptual understanding of HRM throw light on recent developments in this subject area and offer management strategies for problems and challenges related to human resources This book will be an essential textbook for students professionals corporate trainers and researchers of business studies management studies marketing human resource management resource management work and organisational psychology human resource development risk management economics and finance

3-D Printers for Libraries Jason Griffey, 2014 As the maker movement continues to grow and 3-D printers become more affordable an expanding group of hobbyists is keen to explore this new technology In the time honored tradition of introducing new technologies many libraries are considering purchasing a 3-D printer Jason Griffey an early enthusiast of 3-D printing has researched the marketplace and seen several

systems first hand at the Consumer Electronics Show In this report he introduces readers to the 3 D printing marketplace covering such topics as How fused deposition modeling FDM printing work Basic terminology such as build plate spool nozzle hot end direct extruder and Bowden extruder Plastics used such as ABS PLA and others Descriptions price ranges and filament specs for 3 D printers from MakerBot Printrbot Solidoodle and other manufacturers Suggested staff skills for performing basic maintenance tasks Where to find both ready to use designs and the software for customizing from beginning to advanced systems

Photovoltaic Systems Engineering Roger A. Messenger, Amir Abtahi, 2017-03-07 The primary purpose of PV Systems Engineering is to provide a comprehensive set of PV knowledge and understanding tools for the design installation commissioning inspection and operation of PV systems During recent years in the United States more PV capacity was installed than any other electrical generation source In addition to practical system information this new edition includes explanation of the basic physical principles upon which the technology is based and a consideration of the environmental and economic impact of the technology The material covers all phases of PV systems from basic sunlight parameters to system commissioning and simulation as well as economic and environmental impact of PV With homework problems included in each chapter and numerous design examples of real systems the book provides the reader with consistent opportunities to apply the information to real world scenarios *Drum*, 2009

The Complete Book of Colleges 2021 The Princeton Review, 2020-07 The mega guide to 1 349 colleges and universities by the staff of the Princeton Review including detailed information on admissions financial aid cost and more Cover **Physics Briefs**, 1989

Metals Abstracts, 1995 Comprehensive Dissertation Index, 1984 **Iron Trade Review**, 1924 **Thomas Register**, 2004 Government Reports Announcements & Index, 1984 *Mechanical Technology* Charles Goodwin, André-Lategan, Daniel Meyer, 2012 **Mechanical Technology**, 2012

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