

Code No: 53051

**R09**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B.Tech II Year I Semester Examinations, October - 2020**

**MECHANICAL TECHNOLOGY**

**(Mining Engineering)**

**Time: 2 hours**

**Max. Marks: 75**

**Answer any five questions  
All questions carry equal marks**

- 1.a) How the cams and followers are classified and mention their advantages and applications?  
b) How the cam profile is constructed with roller follower taking uniform acceleration and retardation? [8+7]
- 2.a) What is velocity ratio, slip and creep in the belt?  
b) Two parallel shafts 3m apart are to be connected by an open belt to have a velocity ratio of 5. The pulley on the quick running shaft is 15cms diameter. Find the length of belt required to transmit the power without slip. [7+8]
- 3.a) Define the terms module, pressure angle addendum and dedendum.  
b) Sketch and explain the construction and working of worm and worm gearing. [6+9]
4. Sketch and explain the working of spur and bevel gears and mention their applications. [15]
- 5.a) Derive an equation to find the air standard efficiency of otto cycle and mention the assumptions made.  
b) Sketch and explain the working of two stroke cycle engine and mention the advantages and applications. [7+8]
- 6.a) What are the various method of cooling of an I.C. engine and explain about air-cooling.  
b) Sketch and explain working of simple carburettor and mention its advantages. [7+8]
- 7.a) What are the various types of air compressors used in practice and mention their relative advantages and applications?  
b) What are the advantages of multi stage air-compressors over single stage compressors? [7+8]
- 8.a) What are the various problems occurred in the distribution system of compressed air and mention their causes and remedies?  
b) What are the advantages and applications of compressed air in the coal mines? [8+7]

# Mechanical Technology Question Paper For 2014 Grade11

**CH Cherryholmes**



## **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

**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

*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 **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 **Scientific and Technical Aerospace Reports** ,1978 Intelligent Systems, Business, and Innovation Research Rim El Khoury,Nohade Nasrallah,2024-01-25 Intelligent systems research is a multidisciplinary field that focuses on the development of systems that can perceive reason and act autonomously This can include areas such as machine learning artificial intelligence natural language processing and robotics The goal of intelligent systems research is to develop systems that can understand learn from and adapt to their environment to perform tasks that would typically require human intelligence Business and innovation research is an interdisciplinary field that examines how organizations can create develop and implement new ideas products and services This can include areas such as organizational behaviour strategic management and marketing The goal of business and innovation research is to understand how organizations can foster an environment that encourages creativity and innovation and how they can develop and implement new ideas in a way that leads to success Intelligent Systems Business and Innovation Research is a research area that brings together these two fields to study the use of intelligent systems and technologies in the business context to drive innovation improve operational efficiency and effectiveness of the organization The book aims to understand how intelligent systems can be used in business applications how to design and implement them how to manage the associated challenges and how to leverage them to foster innovation create new business models and gain competitive advantage It offers guidance on how to navigate potential conflicts and challenges that may arise during multidisciplinary research in areas such as Industry 4 0 Internet of Things modern machine learning software agent applications and data science The book focuses on the various fields in which intelligent systems play a critical role in enabling the development of advanced technologies that can perform tasks that would typically require human intelligence For example in smart control systems intelligent algorithms can be used to optimize the performance of machines and devices while in cyber security they can be used to protect networks and data from cyber attacks In bioinformatics intelligent systems can be used to analyse large amounts of biological data while in virtual reality and robotics they can be used to create realistic and responsive simulations and automatons Additionally the book also highlights the rapidly advancing theoretical foundations of fuzzy sets mathematical

logic and non classical logic These are important theoretical frameworks for the development of intelligent systems as they provide the foundation for the representation and manipulation of uncertainty complexity and imprecision These theoretical foundations are essential in the development of intelligent systems that can make decisions and perform tasks in uncertain complex and dynamic environments

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

**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

**Advanced Materials, Structures and Mechanical Engineering II** Jong Wan Hu,2016-08-12 Selected peer reviewed papers from the 3rd International Conference on Advanced Materials Structures and Mechanical Engineering May 20 22 2016 Incheon South Korea

*Fatigue and Fracture Mechanics XXV* Dariusz Skibicki,2014-11-26 Selected peer reviewed papers from the 25th Polish National Conference on Fatigue and Fracture Mechanics May 20 23 2014 Fojutowo Poland

**Frontiers of Energy, Materials and Information Engineering** Jimmy Chih Ming Kao,Wen Pei Sung,Ran Chen,2014-10-01 Selected peer reviewed papers from the 2014 International Conference on Frontiers of Energy Materials and Information Engineering ICFMEI 2014 August 21 22 2014 Hong Kong

*Energy Innovation for the Twenty-First Century* Jim Skea,Renée van Diemen,Matthew Hannon,Evangelos Gazis,Aidan Rhodes,2019 This book addresses the question how effective are countries in promoting the innovation needed to facilitate an energy

transition At the heart of the book is a set of empirical case studies covering supply and demand side technologies at different levels of maturity in a variety of countries The case studies are set within an analytical framework encompassing the functions of technological innovation systems and innovation metrics The book concludes with lessons and recommendations for effective policy intervention     Electro-technology ,1950     *Physics Briefs* ,1989     **Metals Abstracts** ,1999-04

*Textile Technology Digest* ,1958     Guide to Four-Year Colleges 1988 Peterson,1987-07     **International Aerospace Abstracts** ,1999     Canadian Journal of Forest Research ,2014     *Comprehensive Dissertation Index* ,1984

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