

Con. 10950-12.

(3 Hours)

KR-7553

[Total Marks : 100]

N.B.

- (1) Question No. 1 is **COMPULSORY**.
- (2) Attempt any **FOUR** questions out of remaining.
- (3) **FIGURES** to the **RIGHT** indicate full marks.

Q.No.1	Write short notes on :	
a.	High speed steels	05
b.	Creep resistant materials	05
c.	Dislocation jog	05
d.	Allotropic forms of iron	05
Q.No.2	a. What is recrystallization annealing? Discuss the stages and factor affecting on it?	10
	b. Define fracture. Explain brittle, ductile, creep and fatigue fracture.	10
Q.No.3	a. Draw Fe-Fe <sub>3</sub> C equilibrium diagram showing important transformations. Discuss Eutectoid transformation in details.	
	b. Explain Griffith's theory of brittle fracture. What is ductile-brittle transition?	10
Q.No.4	a. Explain how to determine from the equilibrium diagram, the composition of two phases that are in equilibrium at any temperature.	10
	b. What is a peritectic reaction? Explain with example.	10
Q.No.5	a. Define a space lattice. What are its important characteristics?	10
	b. Define: ferrite, cementite, austenite, pearlite, martensite and bainite. What are their general characteristics? How they obtained?	10
Q.No.6	a. What are the chemical properties of a material? How are they measured?	10
	b. What is an S-N curve? What useful information is obtained from such curve?	10
Q.No.7	a. What are the different methods of diffusion coating? Discuss in the details with its principle & application.	10
	b. How would you improve the machinability of a low carbon, medium carbon and high carbon steel by heat treatment?	10

# Mechanical Technology Sep 2013 Question Paper Grade12

**Didier Musso**



## **Mechanical Technology Sep 2013 Question Paper Grade12:**

**Early Warning Systems and Targeted Interventions for Student Success in Online Courses** Glick, Danny, Cohen, Anat, Chang, Chi, 2020-06-26 Online learning has increasingly been viewed as a possible way to remove barriers associated with traditional face to face teaching such as overcrowded classrooms and shortage of certified teachers While online learning has been recognized as a possible approach to deliver more desirable learning outcomes close to half of online students drop out as a result of student related course related and out of school related factors e g poor self regulation ineffective teacher student student student and platform student interactions low household income Many educators have expressed concern over students who unexpectedly begin to struggle and appear to fall off track without apparent reason A well implemented early warning system therefore can help educators identify students at risk of dropping out and assign and monitor interventions to keep them on track for graduation Despite the popularity of early warning systems research on their design and implementation is sparse **Early Warning Systems and Targeted Interventions for Student Success in Online Courses** is a cutting edge research publication that examines current theoretical frameworks research projects and empirical studies related to the design implementation and evaluation of early warning systems and targeted interventions and discusses their implications for policy and practice Moreover this book will review common challenges of early warning systems and dashboard design and will explore design principles and data visualization tools to make data more understandable and therefore more actionable Highlighting a range of topics such as curriculum design game based learning and learning support it is ideal for academicians policymakers administrators researchers education professionals instructional designers data analysts and students

**Seven Years of Membranes: Feature Paper 2017** Spas D. Kolev, 2018-08-09 This book is a printed edition of the Special Issue Seven Years of Membranes Feature Paper 2017 that was published in *Membranes*

**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 Clean Energy Systems, 6 Volume Set Jinyue Yan, 2015-06-22 The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems Consolidating information which is currently scattered across a wide variety of literature sources the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth and environmental social and economic impacts are also addressed Topics covered include Volume 1 Renewable Energy Biomass resources and biofuel production Bioenergy Utilization Solar Energy Wind Energy Geothermal Energy Tidal Energy Volume 2 Clean Energy Conversion Technologies Steam Vapor Power Generation Gas Turbines Power Generation Reciprocating Engines Fuel Cells Cogeneration and Polygeneration Volume 3 Mitigation Technologies Carbon Capture Negative Emissions System Carbon Transportation Carbon Storage Emission Mitigation Technologies Efficiency Improvements and Waste Management Waste to Energy Volume 4 Intelligent Energy Systems Future Electricity Markets Diagnostic and Control of Energy Systems New Electric Transmission Systems Smart Grid and Modern Electrical Systems Energy Efficiency of Municipal Energy Systems Energy Efficiency of Industrial Energy Systems Consumer Behaviors Load Control and Management Electric Car and Hybrid Car Energy Efficiency Improvement Volume 5 Energy Storage Thermal Energy Storage Chemical Storage Mechanical Storage Electrochemical Storage Integrated Storage Systems Volume 6 Sustainability of Energy Systems Sustainability Indicators Evaluation Criteria and Reporting Regulation and Policy Finance and Investment Emission Trading Modeling and Analysis of Energy Systems Energy vs Development Low Carbon Economy Energy Efficiencies and Emission Reduction Key features Comprising over 3 500 pages in 6 volumes HCES presents a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems consolidating a wealth of information which is currently scattered across a wide variety of literature sources In addition to renewable energy systems HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal oil and gas energy storage systems mitigation technologies for the reduction of environmental pollutants and the development of intelligent energy systems Environmental social and economic impacts of energy systems are also addressed in depth Published in full colour throughout Fully indexed with cross referencing within and between all six volumes Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields Published in print and online The online version is a single publication i e no updates available for one time purchase or through annual subscription

**DRILLING ENGINEERING** M. Rafiqul Islam, M. Enamul Hossain, 2020-09-13 Sustainable Oil and Gas Development Series Drilling Engineering delivers research materials and emerging technologies that conform sustainability drilling criteria Starting with ideal zero waste solutions in drilling and long term advantages the reference discusses the

sustainability approach through the use of non linear solutions and works its way through the most conventional practices and procedures used today Step by step formulations and examples are provided to demonstrate how to look at conventional practices versus sustainable approaches with eventually diverging towards a more sustainable alternative Emerging technologies are covered and detailed sustainability analysis is included Economic considerations analysis and long term consequences focusing on risk management round out the with conclusions and a extensive glossary Sustainable Oil and Gas Development Series Drilling Engineering gives today s petroleum and drilling engineers a guide how to analyze and evaluate their operations in a more environmentally driven way Proposes sustainable technical criteria and strategies for today s most common drilling practices such as horizontal drilling managed pressure drilling and unconventional shale activity Discusses economic benefits and development challenges to invest in environmentally friendly operations Highlights the most recent research analysis and challenges that remain including global optimization

**Metals Abstracts** ,1995-07 Condition Monitoring with Vibration Signals Hosameldin Ahmed,Asoke K. Nandi,2020-01-07 Provides an extensive up to date treatment of techniques used for machine condition monitoring Clear and concise throughout this accessible book is the first to be wholly devoted to the field of condition monitoring for rotating machines using vibration signals It covers various feature extraction feature selection and classification methods as well as their applications to machine vibration datasets It also presents new methods including machine learning and compressive sampling which help to improve safety reliability and performance Condition Monitoring with Vibration Signals Compressive Sampling and Learning Algorithms for Rotating Machines starts by introducing readers to Vibration Analysis Techniques and Machine Condition Monitoring MCM It then offers readers sections covering Rotating Machine Condition Monitoring using Learning Algorithms Classification Algorithms and New Fault Diagnosis Frameworks designed for MCM Readers will learn signal processing in the time frequency domain methods for linear subspace learning and the basic principles of the learning method Artificial Neural Network ANN They will also discover recent trends of deep learning in the field of machine condition monitoring new feature learning frameworks based on compressive sampling subspace learning techniques for machine condition monitoring and much more Covers the fundamental as well as the state of the art approaches to machine condition monitoringguiding readers from the basics of rotating machines to the generation of knowledge using vibration signals Provides new methods including machine learning and compressive sampling which offer significant improvements in accuracy with reduced computational costs Features learning algorithms that can be used for fault diagnosis and prognosis Includes previously and recently developed dimensionality reduction techniques and classification algorithms Condition Monitoring with Vibration Signals Compressive Sampling and Learning Algorithms for Rotating Machines is an excellent book for research students postgraduate students industrial practitioners and researchers

**Scientific and Technical Aerospace Reports** ,1978 *Physics Briefs* ,1990 **Yearbook of International Organizations 2013-2014 (Volumes 1a-1b)** Union Of International Associations,Union of

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