

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 ₃ 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

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ML Morrison



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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**

Magnesium Technology 2018 Dmytro Orlov, Vineet Joshi, Kiran N. Solanki, Neale R. Neelameggham, 2018-01-26 The Magnesium Technology Symposium the event on which this collection is based is one of the largest yearly gatherings of magnesium specialists in the world Papers represent all aspects of the field ranging from primary production to applications to recycling Moreover papers explore everything from basic research findings to industrialization **Magnesium Technology 2017** covers a broad spectrum of current topics including alloys and their properties cast products and processing wrought products and processing forming joining and machining corrosion and surface finishing ecology and structural applications In addition there is coverage of new and emerging applications

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