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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, May - 2019

COMPOSITE MATERIALS

(Metallurgy and Materials Engineering)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

- 1.a) What is reinforcement? Give examples. [2]
- b) What is a Matrix? Give examples. [3]
- c) Write equations for isostrain and isostress. [2]
- d) List out the properties of whiskers. [3]
- e) Give examples of Metal Matrix Composites. [2]
- f) What are the advantages of Hot Isostatic Pressing? [3]
- g) Give examples of Ceramic matrix composites. [2]
- h) What are the limitations of Ceramic matrix composites? [3]
- i) Give examples of Polymer Matrix Composites. [2]
- j) List out the advantages of Polymer Matrix Composites over Ceramic matrix composites. [3]

PART - B

(50 Marks)

- 2.a) What are the advantages and limitations of composite materials over alloys. [5+5]
 - b) List out the uses of composite materials. [5+5]
- OR**
- 3.a) Explain how reinforcements effect the properties of composite materials. [5+5]
 - b) Describe the future potential of composite materials. [5+5]
4. Briefly describe the production method for the following and list out their properties.
a) Glass fibers
b) Carbon fibers. [5+5]
- OR**
5. Briefly describe the production method for the following and list out their properties.
a) Kevlar fibers
b) Boron fibers. [5+5]

Anna University Composite Materials Question Paper

Daniela Niemeyer



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Rudiments of Materials of Science S. O. Pillai, 2005 Writing A Comprehensive Book On Materials Science For The Benefit Of Undergraduate Courses In Science And Engineering Was A Day Dream Of The First Author Dr S O Pillai For A Long Period However The Dream Became True After A Lapse Of Couple Of Years Lucid And Logical Exposition Of The Subject Matter Is The Special Feature Of This Book The Principal Topics Covered Are Theories Of Metals Superconductivity Magnetism And Magnetic Properties Of Materials Theory Of Semiconductors Dielectrics Optoelectronics And Lasers Miscellaneous Topics An Elementary Treatment Of Basic Topics Namely Solid Formation Crystalline State Wave Mechanics Of Free Electrons Is Found In The Beginning Of The Book A Quick Going Through These Topics May Help The Readers The Power Of Understanding The Main Topics Of The Subject Science Of Condensed Materials With Trifle Effects Trial Based Treatment Of Some Newer Topics In The Form Of Direct Discussion And Conversation Such As Insulating Materials And Their Properties And Uses Light Emitting Diodes And Photon Devices Fibre Optics And Holography Ceramic Materials And Polymers Corrosion And Some Remedies And Composite Materials Is Made Available In About Thirty Pages As The Last Part Of This Book No Author Can Escape Without Providing Objective Questions Problems With Solutions And Tables Giving Physical Properties Of Important Materials That Too In A Book Like This This Book Is Not An Exception In These Features Too The Author Was Very Particular Of The Size And Price Of The Book Hoping That Interested Readers And Students Can Procure One Copy On Their Own And Purse It However The Author Admits That The Feedback From The Readers Alone Will Judge The Spirit Merit And The Degree Of Usefulness Of This Piece Of Work **Scientific and Technical Aerospace Reports**, 1993

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regardless of its country of origin has affected how archaeologists conduct their work This encyclopedia covers all major U S legislation developed for the protection of cultural property including the recent Native American Graves Protection and Repatriation Act and offers a substantial article on worldwide legislation concerning the reburial of human remains and its effects on the present and future practice of archaeology Without some sort of conservation program at the point of excavation valuable materials may be inadvertently contaminated or destroyed Many simple and low cost techniques to promote both sample integrity and long term preservation for major classes of materials are described in this volume Traditional treatments of method and theory usually focus on prehistoric periods and are limited in their geographic range This volume includes discussions based on various historical periods on different continents as reflected in entries such as Historical Archaeology Industrial Archaeology Medieval Archaeology and Classical Archaeology Metals Abstracts ,1996

Sustainable Fibres for Fashion Industry Subramanian Senthilkannan Muthu,Miguel Angel Gardetti,2016-04-22 This book covers all sustainable fibres applicable in the fashion sector It addresses the importance of these fibres in the fashion sector with the context of sustainability This book the first of its kind addresses all the minute details pertaining to these fibres and connects these fibres with the world of sustainable fashion It stresses the importance of having these fibres on board in developing sustainable apparels as fibres play a major role as the starting point in the life cycle of apparel

Tropical Geometry and Integrable Systems Chris Athorne,Diane Maclagan,Ian Strachan,2012 This volume contains the proceedings of the conference on tropical geometry and integrable systems held July 3 8 2011 at the University of Glasgow United Kingdom One of the aims of this conference was to bring together researchers in the field of tropical geometry and its applications from apparently disparate ends of the spectrum to foster a mutual understanding and establish a common language which will encourage further developments of the area This aim is reflected in these articles which cover areas from automata through cluster algebras to enumerative geometry In addition two survey articles are included which introduce ideas from researchers on one end of this spectrum to researchers on the other This book is intended for graduate students and researchers interested in tropical geometry and integrable systems and the developing links between these two areas

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