

Fourth Semester B.E. Degree Examination, June-July 2009
Manufacturing Process - II

Time: 3 hrs.

Max. Marks:100

*Note : Answer any FIVE full questions, selecting atleast
 TWO questions from each Part - A and Part - B.*

PART - A

1.
 - a. With neat sketches, give nomenclature of a single point cutting tool. (07 Marks)
 - b. Derive the conditions $2\phi + \beta - \gamma = \frac{\pi}{2}$. Explain its significance with usual notations. (07 Marks)
 - c. List various factors influencing tool - life. Explain any one of them. (06 Marks)
2.
 - a. List various cutting tool materials in the increasing order of their hardness. (06 Marks)
 - b. Explain with the help of neat sketches, heat distribution at tool and workpiece. (06 Marks)
 - c. What are the methods of measurement of temperature of cutting tool tip? Explain any one of them. (08 Marks)
3.
 - a. Differentiate between capstan and turret lathes. (05 Marks)
 - b. With a neat sketch, explain any one of the driving mechanisms used in a shaping machine. (08 Marks)
 - c. Sketch a planning machine indicating major parts. Name any one of the mechanism for quick return movement in a planer. (07 Marks)
4.
 - a. List various drilling machines. (05 Marks)
 - b. Draw neat sketch of a radial drilling machine indicating parts. (06 Marks)
 - c. Sketch and mention the application of the drilling machine operations - counter boring reaming and trepanning. (09 Marks)

PART - B

5.
 - a. With sketches, differentiate between up milling and down milling operations. (06 Marks)
 - b. Draw a neat sketch to show major parts of a horizontal milling machine. (08 Marks)
 - c. What is Indexing? Explain compound indexing. (06 Marks)
6.
 - a. List various grinding wheel abrasives and bonding processes. (07 Marks)
 - b. Sketch a centre type - cylindrical grinding machine indicating parts. (08 Marks)
 - c. Differentiate between horizontal and vertical grinding machines. (05 Marks)
7.
 - a. Sketch and explain vertical lapping machine. (08 Marks)
 - b. Name the parts along with a neat sketch of a tool head for honing of holes. (07 Marks)
 - c. List the uses of lapping process. (05 Marks)
8.
 - a. Mention any five non - traditional machining processes. (05 Marks)
 - b. Explain AJM with a neat sketch. (10 Marks)
 - c. What are the applications of non traditional machining methods? (05 Marks)

Mechanical Fitting Theory Question Paper N1

Rachel S Tattersall



Mechanical Fitting Theory Question Paper N1:

Mechanics And Mathematics Of Crystals: Selected Papers Of J L Ericksen Jerald L Ericksen, 2005-04-13 This book is a unique and comprehensive collection of pioneering contributions to the mechanics of crystals by J L Ericksen a prominent and leading contributor to the study of the mechanics and mathematics of crystalline solids over the past 35 years It presents a splendid corpus of research papers that cover areas on crystal symmetry constitutive equations defects and phase transitions all topics of current importance to a broad group of workers in the field The volume thus provides in one place material that is frequently referenced by numerous researchers on crystals across a spectrum of activities in areas of continuum mechanics applied mathematics engineering and materials science Each group of papers or chapters in the book is preceded by a summary introduction that describes how the papers on that topic fit together and in which Ericksen sketches the context of each paper and shares with the reader his thinking and insightfulness in writing it The volume edited by internationally renowned scholars whose works in finite elasticity and continuum mechanics have appeared in a variety of books and prestigious journals published over the past four decades also includes a very interesting brief autobiography by Ericksen In it he describes his early life in Oregon his wartime experiences his student days and postgraduate study his introduction to scientific work and what motivated him in his research An English translation and revision of the first paper in this volume originally published in Russian appears here for the first time

Foundations Of Quantum Mechanics, The: Historical Analysis And Open Questions Claudio Garola, Arcangelo Rossi, 2000-05-11 This volume provides a sample of the present research on the foundations of quantum mechanics and related topics by collecting the papers of the Italian scholars who attended the conference entitled The Foundations of Quantum Mechanics Historical Analysis and Open Questions Lecce 1998 The perspective of the book is interdisciplinary and hence philosophical historical and technical papers are gathered together so as to allow the reader to compare different viewpoints and cultural approaches Most of the papers confront directly or indirectly the objectivity problem taking into account the positions of the founders of QM or more recent developments More specifically the technical papers in the book pay special attention to the interpretation of the experiments on Bell's inequalities and to decoherence theory but topics on unsharp QM the consistent history approach quantum probability and alternative theories are also discussed Furthermore a number of historical and philosophical papers are devoted to Planck's, Weyl's and Pauli's thought but topics such as quantum ontology predictivity of quantum laws etc are treated

Density Functional Theory Eberhard K.U. Gross, Reiner M. Dreizler, 2013-06-29 The first Nato Advanced Studies Institute entirely devoted to density functional theory was held in Portugal in September 1983 The proceedings of this School published in early 1985 is still used as a standard reference covering the basic development of the theory and applications in atomic molecular solid state and nuclear physics However astonishing progress has been achieved in the intervening years The foundations of the theory have been extended to cover excited states and time dependent problems more fully density

functional theory of classical liquids and superconducting systems has been addressed and extensions to relativistic that is field theoretical systems as well as a more thorough discussion of magnetic field problems have been presented In addition new functionals have been devised for instance under the heading of generalised gradient expansions and the number of applications in the traditional fields has steadily increased in particular in chemistry Applications in new fields as for instance the structure of atomic clusters and the marriage of density functional theory with molecular dynamics and simulated annealing have provided additional impetus to the field of density functional theory **Mechanics Pan-America** ,1991

Applied Mechanics Reviews ,1949 *Quantum Mechanics* Peter Galison,Michael Gordin,David Kaiser,2013-09-13 Modern science has changed every aspect of life in ways that cannot be compared to developments of previous eras This four volume set presents key developments within modern physical science and the effects of these discoveries on modern global life The first two volumes explore the history of the concept of relativity the cultural roots of science the concept of time and gravity before during and after Einstein s theory and the cultural reception of relativity Volume 3 explores the impact of modern science upon global politics and the creation of a new kind of war and Volume 4 details the old and new efforts surrounding the elucidation of the quantum world as well as the cultural impact of particle physics This reprint collection pools the best scholarship available collected from a large array of difficult to acquire books journals and pamphlets Each volume begins with an introductory essay written by one of the top scholars in the history of science Students and scholars of modern culture science and society will find these volumes a veritable research gold mine **Engineering** ,1903 **The Electrician** ,1919 The Electrical Journal ,1919 *The Engineer* ,1868 Electrical Measuring Instruments and Measurements S.C. Bhargava,2012-12-27 This book written for the benefit of engineering students and practicing engineers alike is the culmination of the author s four decades of experience related to the subject of electrical measurements comprising nearly 30 years of experimental research and more than 15 years of teaching at several engineering institutions The unique feature of this book apart from covering the syllabi of various universities is the style of presentation of all important aspects and features of electrical measurements with neatly and clearly drawn figures diagrams and colour and b w photos that illustrate details of instruments among other things making the text easy to follow and comprehend Enhancing the chapters are interspersed explanatory comments and where necessary footnotes to help better understanding of the chapter contents Also each chapter begins with a recall to link the subject matter with the related science or phenomenon and fundamental background The first few chapters of the book comprise Units Dimensions and Standards Electricity Magnetism and Electromagnetism and Network Analysis These topics form the basics of electrical measurements and provide a better understanding of the main topics discussed in later chapters The last two chapters represent valuable assets of the book and relate to a Magnetic Measurements describing many unique features not easily available elsewhere a good study of which is essential for the design and development of most electric equipment from motors to transformers and

alternators and b Measurement of Non electrical Quantities dealing extensively with the measuring techniques of a number of variables that constitute an important requirement of engineering measurement practices The book is supplemented by ten appendices covering various aspects dealing with the art and science of electrical measurement and of relevance to some of the topics in main chapters Other useful features of the book include an elaborate chapter by chapter list of symbols worked examples exercises and quiz questions at the end of each chapter and extensive authors and subject index This book will be of interest to all students taking courses in electrical measurements as a part of a B Tech in electrical engineering Professionals in the field of electrical engineering will also find the book of use *Engineering News* ,1907

Proceedings - Institution of Mechanical Engineers ,1940 *English Mechanic and World of Science* ,1873

Geotechnical and Geophysical Site Characterization 4 Roberto Quental Coutinho,Paul W. Mayne,2012-09-06 Site characterization is a fundamental step towards the proper design construction and long term performance of all types of geotechnical projects ranging from foundation excavation earth dams embankments seismic hazards environmental issues tunnels near and offshore structures Geotechnical and Geophysical Site Characterization 4 provides practical applications of novel and innovative technologies in geotechnical and geophysical engineering and is of interest to academics engineers and professionals involved in Geotechnical Engineering **Engineering News-record** ,1907 **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.),National Institute of Standards and Technology (U.S.). Information Resources and Services Division,1994 Engineering Record, Building Record and Sanitary Engineer ,1890 Publications of the National Institute of Standards and Technology 1988 Catalog Rebecca J. Pardee,National Institute of Standards and Technology (U.S.),1989 **Proceedings of the Royal Society of London** Royal Society (Great Britain),1978 Publishes research papers in the mathematical and physical sciences Continued by Proceedings Mathematical and physical sciences and Proceedings Mathematical physical and engineering sciences

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