

QUESTION 1: FUNDAMENTALS OF ENGINEERING DRAWING, ELECTRICAL FITTINGS AND WELDING SYMBOLS

NOTE: Answer this question on the attached ANSWER SHEET and submit with DRAWING SHEET.

- 1.1 Write down the meaning of the following abbreviations:
- | | | | |
|-------|------|---------|-----|
| 1.1.1 | PCD | | |
| 1.1.2 | ASSY | | |
| 1.1.3 | AF | | |
| 1.1.4 | CHAM | (4 × 1) | (4) |
- 1.2 Make a NEAT freehand drawing of an PVC T-piece inspection coupling used as an electrical fitting. (3)
- 1.3 Name FOUR basic welding joints. (4)
- 1.4 State FOUR advantages of Computer-aided Drawing compared to conventional drawing or draughting. (4)
- [15]**

QUESTION 2: SCREW THREADS

FIGURE 1 shows the front view of a VALVE SPINDLE.
Draw ONLY section A of the VALVE SPINDLE to a scale 1 : 1.
Provide part A with a single start external right-hand square-screw thread with a pitch of 16 mm.

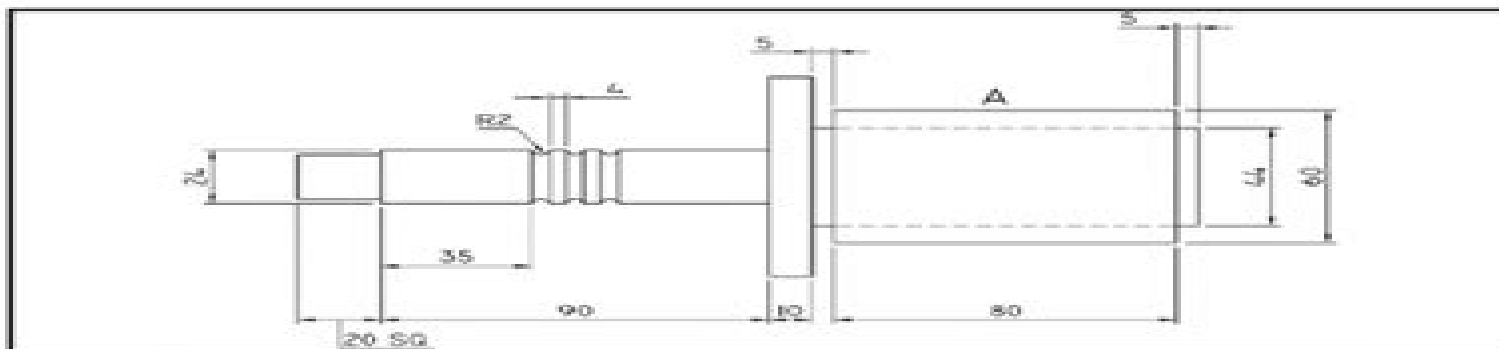


FIGURE 2

[10]

Engineering N2 Qp

Umesh Dhande



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Combustion Engineering, Second Edition Kenneth W. Ragland, Kenneth M. Bryden, 2011-06-15 Combustion Engineering Second Edition maintains the same goal as the original to present the fundamentals of combustion science with application to today's energy challenges Using combustion applications to reinforce the fundamentals of combustion science this text provides a uniquely accessible introduction to combustion for undergraduate students first year graduate students and professionals in the workplace Combustion is a critical issue impacting energy utilization sustainability and climate change The challenge is to design safe and efficient combustion systems for many types of fuels in a way that protects the environment and enables sustainable lifestyles Emphasizing the use of combustion fundamentals in the engineering and design of combustion systems this text provides detailed coverage of gaseous liquid and solid fuel combustion including focused coverage of biomass combustion which will be invaluable to new entrants to the field Eight chapters address the fundamentals of combustion including fuels thermodynamics chemical kinetics flames detonations sprays and solid fuel combustion mechanisms Eight additional chapters apply these fundamentals to furnaces spark ignition and diesel engines gas turbines and suspension burning fixed bed combustion and fluidized bed combustion of solid fuels Presenting a renewed emphasis on fundamentals and updated applications to illustrate the latest trends relevant to combustion engineering the authors provide a number of pedagogic features including Numerous tables with practical data and formulae that link combustion fundamentals to engineering practice Concise presentation of mathematical methods with qualitative descriptions of their use Coverage of alternative and renewable fuel topics throughout the text Extensive example problems chapter end problems and references These features and the overall fundamentals to practice nature of this book make it an ideal resource for undergraduate first level graduate or professional training classes Students and practitioners will find that it is an excellent introduction to meeting the crucial challenge of engineering sustainable combustion systems in a cost effective manner A solutions manual and additional teaching resources are available with qualifying course adoption

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Rowe 2 Basic Soil Mechanics P V Lade 3 Engineering Properties of Soils and Typical Correlations P V Lade 4 Site Characterization D E Becker 5 Unsaturated Soil Mechanics and Property Assessment D G Fredlund et al 6 Basic Rocks Mechanics and Testing K Y Lo A M Hefny 7 Geosynthetics Characteristics and Testing R M Koerner Y G Hsuan 8 Seepage Drainage and Dewatering R W Loughney Foundations and Pavements 9 Shallo

High Performance Computing in Science and Engineering '02 Egon Krause, Willi Jäger, 2012-12-06 This book presents the state of the art in modeling and simulation on supercomputers Leading German research groups present their results achieved on high end systems of the High Performance Computing Center Stuttgart HLRS for the year 2002 Reports cover all fields of supercomputing simulation ranging from computational fluid dynamics to computer science Special emphasis is given to industrially relevant applications Moreover by presenting results for both vector systems and micro processor based systems the book allows to compare performance levels and usability of a variety of supercomputer architectures It therefore becomes an indispensable guidebook to assess the impact of the Japanese Earth Simulator project on supercomputing in the years to come

Geomechanics in Soil, Rock, and Environmental Engineering John Small, 2018-09-03 Utilizes both Computer and Hand Based Calculations Modern practice in geomechanics is becoming increasingly reliant on computer based software much of which can be obtained through the Internet In Geomechanics in Soil Rock and Environmental Engineering the application of these numerical techniques is examined not only for soil mechanics but also for rock mechanics and environmental applications For Use in Complex Analysis It deals with the modern analysis of shallow foundations deep foundations retaining structures and excavation and tunneling In recent years the environment has become more and more important and so it also deals with municipal and mining waste and solutions for the disposal and containment of the waste Many fresh solutions to problems are presented to enable more accurate and advanced designs to be carried out A Practical Reference for Industry Professionals This Illuminating Book Offers a broad range of coverage in soil mechanics rock mechanics and environmental engineering Incorporates the author's more than 40 years of academic and practical design experience Describes the latest applications that have emerged in the last ten years Supplies references readily available online for further research Geomechanics in Soil Rock and Environmental Engineering should appeal to students in their final undergraduate course in geomechanics or master's students and should also serve as a useful reference to practitioners in the field of geomechanics reflecting the author's background in both industry and academia

RRB JE Navigator (PYQ & Practice Questions) CBT 2 (Electrical Engineering) Umesh Dhande, 2024-09-23 This comprehensive guide is designed to cater to the growing demand for accurate and concise solutions to RRB JE This book contains 4068 fully solved questions Including 12 PYQ RRB CBT 2 of Electrical Engineering 3 Shifts from RRB 2019 and 9 Shifts from 2015 The book's key features include 1 Step by Step Solutions Detailed easy to follow solutions to all questions 2 Chapter Wise and Year Wise Analysis In depth analysis of questions organized by chapter and year 3 Detailed Explanations Clear explanations of each question ensuring a

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Handbook On Engineering Plasticity: Theoretical Plasticity & Applications Of Plasticity Theory David W A Rees, 2025-03-11 This book brings together in sixteen chapters those elements of the mechanics of plasticity most pertinent to engineers A textbook style has been adopted in which worked examples and exercises illustrate the application of the theoretical material The latter is provided with appropriate references to journals and other published sources An appendix contains worked examples to selected exercises The presentation of the introductory material the theoretical developments and the use of appropriate experimental data appear within the first four chapters Therein appear the classical incremental flow and total deformation theories of plasticity Comparisons with experimental results are able to discriminate between the two theories Other fundamental studies of plasticity covered in later chapters include crystal plasticity and viscous behaviour of metallic solids The intention there in chapters 8 and 11 is to reconcile micro and macro behaviour and to give an account

of the time dependence of deformation The latter identifies creep strain as an adjunct to more recent plasticity theory where the classical approaches are known to be deficient The remaining chapters are concerned mainly with applications of plasticity theory and the simplifications that these involve Useful applications are given with and without work hardening for elastic plasticity and with an absence of elasticity altogether in the case of a plastic rigid solid The topics within which these appear include structures slip line fields and finite elements for metal forming stress waves in bars and plastic instability The package of topics presented here is broader than other monographs on the theory of plasticity The unique blend of contents is intended to support syllabuses across a diversity of undergraduate and postgraduate courses including manufacturing engineering mechanics strength of materials and applied mathematics

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