



ORPHANAGE POLYTECHNIC COLLEGE, EDAVANNA

COMPUTER AIDED DRAFTING LAB (Viva Questions)

1. What is meant by AutoCAD?

AutoCAD is one of the CAD system software introduced by Autodesk.

2. Mention some CAD packages?

- AUTOCAD
- STAAD
- 3DsMax
- REVIT
- BEAMD
- STRAP
- MATLAB
- MS Project
- ETABS
- EPANET

3. What is the difference between CAD & CADD?

CAD - Computer Aided Design

CADD - Computer Aided Design and Drafting

4. What are the applications of CAD?

- Preparing Architectural drawing.
- Interior design and modelling.
- Tool and fixture design.
- Production planning and control.
- Preparing of assembly list and bill of material.
- Computer aided inspection.
- Preparation of programs for CNC machine.
- Circuit layout and panel drawing.

5. Define current UCS?

The User Co-ordinate System - Determines X,Y and Z axis.

6. What is .dwg?

The file extension and format for the standard AutoCAD drawing.

7. What is a hatch patterns?

A pattern of lines, dots and other shapes that fills in a closed area.

Command: H + Enter

Viva Questions Of Machine Drawing

John Downing



Viva Questions Of Machine Drawing:

Machine Drawing O.P. Jakhar, Amit Mathur, This book is Designed for the students of Engineering and Technology as well as specially for Mechanical Engineering Degree and Diploma students The teaching of this course faces difficulty in explaining the various concept of machine drawing viz orthographical projection sectioning complicated mechanical assembly drawing etc Sometimes explanation requires some three dimensional and complicated drawing to be drawn on the black board which is quite impossible due to the time constraint of class This book is an outcome of the strong need felt by students offering the course and the teaching need felt by us The teacher can explain the related concepts drawing methods and uses of various parts being drawn etc in each practical class without bothering the black board The subject matter has been compressed from the view point of Mechanical Engineering students The book also contains Basic Drawing Softwares which describes about the basics of Auto CAD CATIA PROE ANSYS etc which is useful for today s need of Engineering

Technology **A Textbook of Machine Drawing (In First Angle Projection)** R.K.Dhawan,1998-12 This book is for B Sc Engg B E Dip In Mech Engg Production Engg Automobile Engg Textile Engg etc I T I Draftsman Course in Mech Engg A T I 10 2 System and other Engineering Examinations According to Bureau of Indian Standards B I S SP 46 1988 IS 696 1972

Data Science and Machine Learning Interview Questions Using Python Vishwanathan Narayanan,2020-05-08 Know Data science with numpy pandas scipy sklearn DESCRIPTION Data science and Machine learning interview questions using Python a book which is a true companion of people aspiring for data science and machine learning and it provides answers to most asked questions in an easy to remember and presentable form Book mainly intended to be used as last minute revision before the interview as all the important concepts and various terminologies have been given in a very simple and understandable format Many examples have been provided so that the same can be used while giving answers in an interview The book is divided into six chapters which starts with the Data Science Basic Questions and Terms then covers the questions related to Python Programming Numpy Pandas Scipy and its Applications then at the last covers Matplotlib and Statistics with Excel Sheet KEY FEATURES Questions related to core basic Python Excel basic and advanced statistics are included Book will prove to be a companion whenever you want to go for an interview Simple to use words have been used in the answers for the questions to help ease of remembering WHAT WILL YOU LEARN You can learn the basic concept and terms related to Data Science python programming You will get to learn how to program in python basics of Numpy You will get familiarity with the questions asked in an interview related to Pandas and learn the concepts of Scipy Matplotlib and Statistics with Excel Sheet WHO THIS BOOK IS FOR The book is mainly intended to help people represent their answer in a sensible way to the interviewer The answers have been carefully rendered in a way to make things quite simple and yet represent the seriousness and complexity of the matter Since data science is incomplete without mathematics we have also included a part of the book dedicated to statistics Table of Contents 1 Data Science Basic Questions and Terms 2 Python

Programming Questions 3 Numpy Interview Questions 4 Pandas Interview Questions 5 Scipy and its Applications 6 Matplotlib Samples to Remember 7 Statistics with Excel Sheet **Machine Learning Interview Questions** Veena A and Gowrishankar S, 2024-05-30 The book aim of Machine Learning interview questions is to determine a candidate s level of knowledge and understanding of Machine Learning concepts algorithms and tools These types of interviews are often used by employers to assess an applicant s problem solving skills and technical proficiency in the field The scope of scope of this book Machine Learning interview questions can range from basic to more complex topics such as the fundamentals of supervised and unsupervised learning working with data sets and libraries building ML models and deploying and monitoring ML systems Additionally the interviewer may ask questions about the candidate s experience with specific Machine Learning frameworks data science techniques and software engineering practices Overall this book helps to assess the candidate s level of knowledge and experience in the field of Machine Learning As such it is important for the interviewer to ask questions that are relevant to the job and the candidate s qualifications as well as to provide a supportive environment where the candidate can demonstrate their skillset **MECHANICAL ENGINEERING** Prabhu TL, Enter the realm of mechanical engineering where imagination merges with technical prowess to create revolutionary solutions that shape our world Mechanical Engineering is a comprehensive guide that embarks on an enthralling journey through the diverse facets of this dynamic discipline illuminating the brilliance of innovation and precision that defines modern mechanical engineering Embrace the Art and Science of Mechanics Discover the heart and soul of mechanical engineering as this book unravels the intricacies of designing analyzing and optimizing mechanical systems From classic machinery to cutting edge robotics Mechanical Engineering encompasses the full spectrum of this multifaceted field Key Themes Explored Machine Design Explore the principles behind crafting robust and efficient machines to meet modern day challenges Thermodynamics and Heat Transfer Delve into the world of energy conversion and thermal systems that drive our world Robotics and Automation Embrace the future with insights into robotic systems and automated manufacturing Fluid Mechanics and Aerodynamics Master the dynamics of fluid flow and aerodynamic design powering our transportation and aviation Manufacturing Processes Uncover the methodologies that shape raw materials into functional components and products Target Audience Mechanical Engineering caters to mechanical engineers students and enthusiasts seeking to expand their understanding of this dynamic field Whether you re involved in manufacturing design or robotics this book will empower you to innovate and excel Unique Selling Points Expert Knowledge Benefit from the wisdom and experience of seasoned mechanical engineers who share their insights Hands On Applications Engage with practical examples and exercises that bridge theory with real world applications Technological Advancements Stay abreast of the latest technological breakthroughs that are reshaping mechanical engineering Global Perspectives Embrace a diverse array of mechanical engineering perspectives from around the world Ignite Your Engineering Passion Mechanical Engineering is not just a book it s a transformative experience that

will fuel your passion for innovation and precision Whether you re a mechanical prodigy or an engineering enthusiast this book will drive you towards excellence in the captivating world of mechanical engineering Unveil the power of innovation Secure your copy of Mechanical Engineering and embark on an extraordinary journey through the realm of mechanical ingenuity

Technical Drawing 101 with AutoCAD 2020 Ashleigh Fuller, Antonio Ramirez, Douglas Smith, 2019-06

Technical Drawing 101 covers topics ranging from the most basic such as making freehand multiview sketches of machine parts to the advanced creating an AutoCAD dimension style containing the style settings defined by the ASME Y14.5 2009 Dimensioning and Tolerancing standard But unlike the massive technical drawing reference texts on the market Technical Drawing 101 aims to present just the right mix of information and projects that can be reasonably covered by faculty and assimilated by students in one semester Both mechanical and architectural projects are introduced to capture the interest of more students and to offer a broader appeal The authors have also created extensive video training 120 videos 17 hours total that is included with every copy of the book In these videos the authors start off by getting students comfortable with the user interface and demonstrating how to use many of AutoCAD s commands and features The videos progress to more advanced topics where the authors walk students through completing several of the projects in the book The CAD portion of the text incorporates drafting theory whenever possible and covers the basics of drawing setup units limits and layers the tools of the Draw Modify and Dimension toolbars and the fundamentals of 3D modeling By focusing on the fundamental building blocks of CAD Technical Drawing 101 provides a solid foundation for students going on to learn advanced CAD concepts and techniques paper space viewports xrefs annotative scaling etc in intermediate CAD courses In recognition of the diverse career interests of our students Technical Drawing 101 includes projects in which students create working drawings for a mechanical assembly as well as for an architectural project We include architectural drawing because our experience has shown that many if not most first semester drafting students are interested in careers in the architectural design field and that a traditional technical drawing text which focuses solely on mechanical drawing projects holds little interest for these students The multidisciplinary approach of this text and its supporting materials are intended to broaden the appeal of the curriculum and increase student interest and it is hoped future enrollments

Basics of CNC Programming Pawan Negi, Mangey Ram, Om Prakash Yadav, 2022-09-01

Before the introduction of automatic machines and automation industrial manufacturing of machines and their parts for the key industries were made though manually operated machines Due to this manufacturers could not make complex profiles or shapes with high accuracy As a result the production rate tended to be slow production costs were very high rejection rates were high and manufacturers often could not complete tasks on time Industry was boosted by the introduction of the semi automatic manufacturing machine known as the NC machine which was introduced in the 1950 s at the Massachusetts Institute of Technology in the USA After these NC machine started to be used typical profiles and complex shapes could get produced more readily which in turn lead to an

improved production rate with higher accuracy Thereafter in the 1970 s an even larger revolutionary change was introduced to manufacturing namely the use of the CNC machine Computer Numerical Control Since then CNC has become the dominant production method in most manufacturing industries including automotive aviation defence oil and gas medical electronics industry and the optical industry Basics of CNC Programming describes how to design CNC programs and what cutting parameters are required to make a good manufacturing program The authors explain about cutting parameters in CNC machines such as cutting feed depth of cut rpm cutting speed etc and they also explain the G codes and M codes which are common to CNC The skill set of CNC program writing is covered as well as how to cut material during different operations like straight turning step turning taper turning drilling chamfering radius profile profile turning etc In so doing the authors cover the level of CNC programming from basic to industrial format Drawings and CNC programs to practice on are also included for the reader

Technical Drawing 101 with AutoCAD 2021 Ashleigh Fuller, Antonio Ramirez, Douglas Smith, 2020-07 Technical Drawing 101 covers topics ranging from the most basic such as making freehand multiview sketches of machine parts to the advanced creating an AutoCAD dimension style containing the style settings defined by the ASME Y14.5 2009 Dimensioning and Tolerancing standard But unlike the massive technical drawing reference texts on the market Technical Drawing 101 aims to present just the right mix of information and projects that can be reasonably covered by faculty and assimilated by students in one semester Both mechanical and architectural projects are introduced to capture the interest of more students and to offer a broader appeal The authors have also created extensive video training 137 videos 18.5 hours total that is included with every copy of the book In these videos the authors start off by getting students comfortable with the user interface and demonstrating how to use many of AutoCAD's commands and features The videos progress to more advanced topics where the authors walk students through completing several of the projects in the book The CAD portion of the text incorporates drafting theory whenever possible and covers the basics of drawing setup units limits and layers the tools of the Draw Modify and Dimension toolbars and the fundamentals of 3D modeling By focusing on the fundamental building blocks of CAD Technical Drawing 101 provides a solid foundation for students going on to learn advanced CAD concepts and techniques paper space viewports xrefs annotative scaling etc in intermediate CAD courses In recognition of the diverse career interests of our students Technical Drawing 101 includes projects in which students create working drawings for a mechanical assembly as well as for an architectural project We include architectural drawing because our experience has shown that many if not most first semester drafting students are interested in careers in the architectural design field and that a traditional technical drawing text which focuses solely on mechanical drawing projects holds little interest for these students The multidisciplinary approach of this text and its supporting materials are intended to broaden the appeal of the curriculum and increase student interest and it is hoped future enrollments

Technical Drawing 101 with AutoCAD 2014 Antonio Ramirez, Douglas W. Smith, Jana Schmidt, 2013 Technical Drawing 101 covers

topics ranging from the most basic such as making freehand multiview sketches of machine parts to the advanced creating an AutoCAD dimension style containing the style settings defined by the ASME Y14.5 2009 Dimensioning and Tolerancing standard. But unlike the massive technical drawing reference texts on the market, Technical Drawing 101 aims to present just the right mix of information and projects that can be reasonably covered by faculty and assimilated by students in one semester. Both mechanical and architectural projects are introduced to capture the interest of more students and to offer a broader appeal. The authors have also created video tutorials for this book in which they demonstrate how to use many of AutoCAD's tools and commands. The CAD portion of the text incorporates drafting theory whenever possible and covers the basics of drawing setup, units, limits, and layers; the tools of the Draw, Modify, and Dimension toolbars; and the fundamentals of 3D modeling. By focusing on the fundamental building blocks of CAD, Technical Drawing 101 provides a solid foundation for students going on to learn advanced CAD concepts and techniques: paper space, viewports, xrefs, annotative scaling, etc. in intermediate CAD courses. In recognition of the diverse career interests of our students, Technical Drawing 101 includes projects in which students create working drawings for a mechanical assembly as well as for an architectural project. We include architectural drawing because our experience has shown that many, if not most, first semester drafting students are interested in careers in the architectural design field and that a traditional technical drawing text which focuses solely on mechanical drawing projects holds little interest for these students. The multidisciplinary approach of this text and its supporting materials is intended to broaden the appeal of the curriculum and increase student interest, and it is hoped future enrollments will reflect this.

Technical Drawing 101 with AutoCAD 2016 Antonio Ramirez, Jana Schmidt, Douglas Smith, 2015-05

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Technical Drawing 101 with AutoCAD 2015 Antonio Ramirez,Jana Schmidt ,Douglas Smith,2014-06-11 Technical Drawing 101 covers topics ranging from the most basic such as making freehand multiview sketches of machine parts to the advanced creating an AutoCAD dimension style containing the style settings defined by the ASME Y14 5 2009 Dimensioning and Tolerancing standard But unlike the massive technical drawing reference texts on the market Technical Drawing 101 aims to present just the right mix of information and projects that can be reasonably covered by faculty and assimilated by students in one semester Both mechanical and architectural projects are introduced to capture the interest of more students and to offer a broader appeal The authors have also created extensive video training 101 videos nearly 11 hours total that is included with every copy of the book In these videos the authors start off by getting students comfortable with the user interface and demonstrating how to use many of AutoCAD's tools and commands The videos progress to more advanced topics where the authors walk students through completing several of the projects in the book The CAD portion of the text incorporates drafting theory whenever possible and covers the basics of drawing setup units limits and layers the tools of the Draw Modify and Dimension toolbars and the fundamentals of 3D modeling By focusing on the fundamental building blocks of CAD Technical Drawing 101 provides a solid foundation for students going on to learn advanced CAD concepts and techniques paper space viewports xrefs annotative scaling etc in intermediate CAD courses In recognition of the diverse career interests of our students Technical Drawing 101 includes projects in which students create working drawings for a mechanical assembly as well as for an architectural project We include architectural drawing because our experience has shown that many if not most first semester drafting students are interested in careers in the architectural design field and that a traditional technical drawing text which focuses solely on mechanical drawing projects holds little interest for these students The multidisciplinary approach of this text and its supporting materials is intended to broaden the appeal of the curriculum and increase student interest and it is hoped future enrollments

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Job interview questions and answers for employment on Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 289 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry 600

Detailed Interview Questions and Answers for Climate Informatics Researcher Analyzing Environmental Data with AI CloudRoar Consulting Services,2025-08-15 The demand for Climate Informatics Researchers is rapidly increasing as governments NGOs and private organizations strive to address the challenges of climate change sustainability and environmental modeling Professionals working in this field require expertise in climate data analytics AI driven forecasting atmospheric science and big data systems To support job seekers students and working professionals CloudRoar Consulting Services presents 600 Interview Questions Answers for Climate Informatics Researchers a comprehensive skillset based interview preparation resource Unlike certification oriented books this guide focuses purely on the skills tools and

methodologies used in climate informatics It equips you with practical knowledge and real world interview Q A to confidently face technical discussions academic evaluations and research based hiring processes Key areas covered include Climate Data Science Analytics handling large climate datasets climate models and simulation tools Machine Learning for Climate Research applying AI ML for prediction anomaly detection and climate pattern recognition Environmental Informatics Big Data cloud platforms high performance computing HPC and distributed data systems for climate research Sustainability Climate Policy Informatics bridging data insights with actionable climate policies and strategies Statistical Modeling Simulation time series forecasting uncertainty quantification and climate impact assessments Tools Frameworks Python R MATLAB NetCDF TensorFlow and climate data visualization techniques Research Communication presenting findings effectively for policymakers scientific journals and cross disciplinary collaboration This book is not just for job interviews it also acts as a self study reference for professionals preparing for roles such as climate data analyst environmental modeler sustainability researcher or computational climatologist With 600 carefully structured questions and expert answers this guide gives you an edge in competitive interviews and helps you showcase technical depth analytical ability and domain specific expertise Whether you are entering the field or advancing your career this book is your roadmap to success in climate informatics research

ITI Operator Advance Machine Tool Manoj Dole, ITI Operator Advance Machine Tool is a simple e Book for ITI Advance Machine Tool JOB Interview Apprentice Exam It contains objective questions with underlined bold correct answers MCQ covering all topics including all about operation of grinding machine different special machines advanced turning and milling machines operation taper turning eccentric turning boring screw thread multi start thread gang milling splines different gears using different instruments gauges and testing geometrical accuracy of machines all aspect of CNC turning covered starting from machine

Technical Workers in an Advanced Society Stephen Crawford, 1989-09-29 First published in 1989 this book examines the work careers and politics of French engineers and technical workers employed in traditional and high technology settings In the process it critically evaluates several theories of social change and advocates a unique approach to class theory and the comparative analysis of nations Neither owners of productive property nor wage workers performing routinised labour Engineers occupy an ambiguous social position that has elicited a good deal of controversy about trends in their situation and ideology Where theories of professionalism anticipate occupationally based challenges to the legitimacy of bureaucratic authority Marxian and neo Marxian analyses foresee class based opposition to capitalism Yet all these theories share a preoccupation with the effects of technology and the division of labour on social values and group identities This book maintains that such a preoccupation obscures the significance of career situations and the distinctively national institutions that shape them The book presents a fresh view of the interplay of occupation class and nation

Computers for Social Change and Community Organizing John Downing, 1991 Computers for Social Change and Community Organizing presents an original perspective on the uses of computers for

community and social change based organizations Drawing on the experience of community organizers and administrators who use computers for social and political goals and computer consultants who tailor systems to the specialized needs of small non profit and membership groups the book offers valuable information and advice on traditional and innovative applications Computers for Social Change and Community Organizing aims to reach professionals who want to explore and use the computer efficiently and creatively including computer professionals working for social change administrators of small social service and community organizations leaders of self help organizations networks and coalitions paid and volunteer staff and leadership Chapters range from suggestions on data based implementation through reports on computer uses in neighborhood housing preservation and crime reduction to discussions of the broad issues surrounding the role of technology in democratic social movements This provocative book provides practical guidelines on computerizing for empowerment together with insights into the challenges faced by low budget organizations and contemporary social movements Computers for Social Change and Community Organizing incorporates material from the precedential first and second New York City Conferences on Computers for Social Change New Tools for Political and Community Organizing

Asp. Net Interview Questions And Answers Rajaram,2006 *Making Embedded Systems* Elecia White,2024-03
Interested in developing embedded systems Since they don t tolerate inefficiency these systems require a disciplined approach to programming This easy to read guide helps you cultivate good development practices based on classic software design patterns and new patterns unique to embedded programming You ll learn how to build system architecture for processors not for operating systems and you ll discover techniques for dealing with hardware difficulties changing designs and manufacturing requirements Written by an expert who has created systems ranging from DNA scanners to children s toys this book is ideal for intermediate and experienced programmers no matter what platform you use This expanded second edition includes new chapters on IoT and networked sensors motors and movement debugging data handling strategies and more Optimize your system to reduce cost and increase performance Develop an architecture that makes your software robust in resource constrained environments Explore sensors displays motors and other I O devices Reduce RAM and power consumption code space and processor cycles Learn how to interpret schematics datasheets and power requirements Discover how to implement complex mathematics and machine learning on small processors Design effective embedded systems for IoT and networked sensors *Racing to Make Space* Joshua D. Vadeboncoeur,2025-08-14 This book explores the often overlooked experiences of Black NASCAR fans challenging the sport s traditional image as a stronghold of Southern white conservatism Through a narrative inquiry approach the book examines how Black fans navigate and transform NASCAR s cultural and spatial landscapes Divided into three sections it delves into Black placemaking within NASCAR the impact of pervasive whiteness in the sport s geographies and offers practical recommendations for fostering greater inclusivity within NASCAR The presence and influence of Black fans within this space have largely been ignored in academic

discourse media coverage and the sport's own self representation This book seeks to address this significant gap in the literature by providing a comprehensive and in depth examination of how Black fans engage with navigate and transform the cultural and spatial landscapes of NASCAR while providing actionable insights for creating more equitable and inclusive environments in American sports

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Viva Questions Of Machine Drawing Introduction

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