



DR. SUBHASH
TECHNICAL CAMPUS

DEPARTMENT OF MECHANICAL ENGINEERING

ENGINEERING GRAPHICS (2110018)

SHEET - 02

PLANE SCALE AND DIAGONAL SCALE

1. Construct a plain scale of 1cm = 1km, to show hectometre and kilometre. Scale should be long enough to measure up to 15 km. Indicate 4 km 7 hm on the scale.
2. Construct a plain scale of R.F. = 1/5000 to read hectometre and decametre. It should be able to measure 10 hectometre. Measure a distance of 7 hm 6 dm on the scale.
3. The distance between Delhi and Agra is 200 km. In a railway map it is represented by a line 5 cm long. Find it's R.F. Draw a diagonal scale to show single km. And maximum 600 km. Indicate on it following distances. 1) 222 km 2) 336 km 3) 459 km 4) 569 km
4. Construct a diagonal scale of R.F.= 1:32,00,000 to show kilometers and long enough to measure up to 400km.show distances of 257 Km on your scale.

Assignment – 01

1. In a map a 36 km distance is shown by a line 45 cm long. Calculate the R.F. and construct a plain scale to read kilometers and hectometers, for max. 12 km. Show a distance of 8.3 km on it.
2. Draw a scale 1 cm = 1m to read decimeters, to measure maximum distance of 6 m. Show on it a distance of 4 m and 6 dm.
3. Construct a plain scale of R.F. 1: 50,000 to show kilometers and hectometers and long enough to measure up to 7 Kilometers. Measure a distance of 54 hectometers on your scale.
4. A room of 1000 m³ volume is represented by a block of 125 cm³ volumes. Find R.F. and construct a plain scale to measure up to 30 m. measure a distance of 18 m on the scale.

Subject Incharge

(Prof. V.T.Shekhada)

HOD

(Prof.J.J.Patel)

Engineering Graphics Cod 2110013

CL Gary



Engineering Graphics Cod 2110013:

Engineering Graphics Problems Book Arvid R. Eide,1985 **A Concise Introduction to Engineering Graphics Including Worksheet Series B Sixth Edition** Timothy Sexton,2019-07 A Concise Introduction to Engineering Graphics is a focused book designed to give you a solid understanding of how to create and read engineering drawings It consists of thirteen chapters that cover all the fundamentals of engineering graphics Included with your purchase of A Concise Introduction to Engineering Graphics is a free digital copy of Technical Graphics and video lectures This book is unique in its ability to help you quickly gain a strong foundation in engineering graphics covering a breadth of related topics while providing you with hands on worksheets to practice the principles described in the book The bonus digital copy of Technical Graphics is an exhaustive resource and allows you to further explore specific engineering graphics topics in greater detail A Concise Introduction to Engineering Graphics is 274 pages in length and includes 40 exercise sheets The exercise sheets both challenge you and allow you to practice the topics covered in the text Video Lectures The author has recorded a series of lectures to be viewed as you go through the book In these videos the author presents the material in greater depth and using specific examples The PowerPoint slides the author used during these presentations are also available for download Technical Graphics Included with your purchase of this book is a digital version of Technical Graphics a detailed 522 page introduction to engineering graphics The inside front cover of this book contains an access code and instructions on how to redeem this access code Follow these instructions to access your free digital copy of Technical Graphics and other bonus materials **Principles of Engineering Graphics** ,1990 Fundamentals of Engineering Graphics Joseph B. Dent,1987
Engineering Graphics Fundamentals Arvid R. Eide,1995 Fundamentals of Engineering Graphics Cecil Howard Jensen,Frederick Harry Sextus Mason,1988 Engineering Graphics William Perkins Spence,1988 **A Concise Introduction to Engineering Graphics Including Worksheet Series A Sixth Edition** Timothy Sexton,2019-07 A Concise Introduction to Engineering Graphics is a focused book designed to give you a solid understanding of how to create and read engineering drawings It consists of thirteen chapters that cover all the fundamentals of engineering graphics Included with your purchase of A Concise Introduction to Engineering Graphics is a free digital copy of Technical Graphics and video lectures This book is unique in its ability to help you quickly gain a strong foundation in engineering graphics covering a breadth of related topics while providing you with hands on worksheets to practice the principles described in the book The bonus digital copy of Technical Graphics is an exhaustive resource and allows you to further explore specific engineering graphics topics in greater detail A Concise Introduction to Engineering Graphics is 274 pages in length and includes 40 exercise sheets The exercise sheets both challenge you and allow you to practice the topics covered in the text
Engineering Graphics Essentials Kirstie Plantenberg,2010-03 *Engineering Graphics Essentials* Fourth Edition gives students a basic understanding of how to create and read engineering drawings by presenting principles in a logical and easy

to understand manner It covers the main topics of engineering graphics including tolerancing and fasteners This book also features an independent learning DVD containing supplemental content to further reinforce these principles Through its many different exercises this text is designed to encourage students to interact with the instructor during lectures and it will give students a superior understanding of engineering graphics The enclosed independent learning DVD allows the learner to go through the topics of the book independently The main content of the DVD contains pages that summarize the topics covered in the book Each page has voice over content that simulates a lecture environment There are also interactive examples that allow the learner to go through the instructor led and in class student exercises found in the book on their own Video examples are also included to supplement the learning process DVD Content Summary pages with voice over lecture content Interactive exercises Video examples Supplemental problem solutions

The Fundamentals of Engineering Drawing and Graphic Technology Thomas Ewing French, Charles J. Vierck, 1978 Attention to the metric system and a discussion of computer methods supplement a text covering all aspects of the graphics of engineering design and construction

Engineering Graphics James S. Rising, Maurice W. Almfeldt, Paul S. DeJong, 1979

Engineering Graphics Frederick E. Giesecke, Henry C. Spencer, Alva Mitchell, Ivan L. Hill, John T. Dygdon, James E. Novak, Robert Olin Loving, 2013-08-29 For courses in Engineering Graphics Technical Drawing and Drafting Technical Sketching This authoritative text dominates the market by offering the best coverage of basic graphics principles and an unmatched set of fully machineable working drawings Its practical well illustrated step by step explanations of procedures have successfully trained students for 60 years and continue to appeal to today's visually oriented students

Technical Drawing with Engineering Graphics Frederick E. Giesecke, Ivan Leroy Hill, Henry C. Spencer, John Thomas Dygdon, James E. Novak, Shawna D. Lockhart, 2013-07-23 For courses in Technical Drawing Engineering Graphics Engineering Design Communication Drafting Visualization at level beginner through advanced Technical Drawing and Engineering Graphics Fourteenth Edition provides a clear comprehensive introduction and detailed easy to use reference to creating 2D documentation drawings and engineering graphics by hand or using CAD It offers excellent technical detail up to date standards motivating real world examples and clearly explained theory and technique in a colorful highly visual concisely written format Designed as an efficient tool for busy visually oriented learners this edition expands on well tested material

Engineering Graphics Essentials Fifth Edition Kirstie Plantenberg, 2016-09 Engineering Graphics Essentials gives students a basic understanding of how to create and read engineering drawings by presenting principles in a logical and easy to understand manner It covers the main topics of engineering graphics including tolerancing and fasteners This textbook also includes independent learning material containing supplemental content to further reinforce these principles This textbook makes use of a large variety of exercise types that are designed to give students a superior understanding of engineering graphics and encourages greater interaction during lectures The independent learning material allows students to explore the topics in the book on

their own and at their own pace The main content of the independent learning material contains pages that summarize the topics covered in the book Each page has audio recordings that simulate a lecture environment Interactive exercises are included and allow students to go through the instructor led and in class student exercises found in the book on their own Also included are videos that walk students through examples and show them exactly how and why each step is performed

Engineering Graphics Desk Book Thomas T. Samaras,1975 **Principles of Engineering Graphics** Frederick Ernest Giesecke,1990 **ENGINEERING GRAPHICS FOR DEGREE** JOHN, K. C.,2009-04-13 This book provides a detailed study of geometrical drawing through simple and well explained worked out examples It is designed for first year engineering students of all branches The book is divided into seven modules A topic is introduced in each chapter of a module with brief explanations and necessary pictorial views Then it is discussed in detail through a number of worked out examples which are explained using step by step procedure and illustrating drawings Module A covers the fundamentals of manual drafting lettering freehand sketching and dimensioning of views Module B describes two dimensional drawings like geometrical constructions conics miscellaneous curves and scales Three dimensional drawings such as projections of points lines plane lamina geometrical solids and sections of them are well explained in Module C Module D deals with intersection of surfaces and their developments Drawing of pictorial views is illustrated in Module E which includes isometric projection oblique projection and perspective projections Module F covers the fundamentals of machine drawing Finally in Module G the book introduces computer aided drafting CAD to make the readers familiar with the state of the art techniques of drafting Key Features Follows the International Standard Organization ISO code of practice for drawing Includes a large number of dimensioned illustrations worked out examples and university questions and answers to explain the geometrical drawing process Contains chapter end exercises to help students develop their drawing skills **Engineering Graphics Theory and Problems 2nd Edition with Appendix A** Timothy J. Sexton,2007-02 Engineering Graphics Theory and Problems gives students a basic understanding of how to create and read engineering drawings The book consist of twelve chapters that cover the basics of Engineering Graphics The text is 134 pages in length and is followed by 40 exercise sheets The exercise sheets both challenge the students and allow them to practice the topics covered in the text Table of Contents 1 Hand Lettering 2 Sketching Techniques 3 Line Types 4 Measurement and Scale 5 Multiview Drawing 6 Isometric Drawing 7 Auxliary Views 8 Dimensioning 9 Sectional Views 10 Threads 11 Working Drawings 12 General Tolerance 13 General Dimensioning and Tolerancing **Engineering Graphics** Timothy Sexton,2006-09-01 **Engineering Graphics Fundamentals** Arvid Eide,Roland Jenison,Lane Mashaw,Larry L. Northrup,1985-11-01

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Table of Contents Engineering Graphics Cod 2110013

1. Understanding the eBook Engineering Graphics Cod 2110013
 - The Rise of Digital Reading Engineering Graphics Cod 2110013
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Graphics Cod 2110013
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Engineering Graphics Cod 2110013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Graphics Cod 2110013

- Personalized Recommendations
- Engineering Graphics Cod 2110013 User Reviews and Ratings
- Engineering Graphics Cod 2110013 and Bestseller Lists
- 5. Accessing Engineering Graphics Cod 2110013 Free and Paid eBooks
 - Engineering Graphics Cod 2110013 Public Domain eBooks
 - Engineering Graphics Cod 2110013 eBook Subscription Services
 - Engineering Graphics Cod 2110013 Budget-Friendly Options
- 6. Navigating Engineering Graphics Cod 2110013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Graphics Cod 2110013 Compatibility with Devices
 - Engineering Graphics Cod 2110013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Graphics Cod 2110013
 - Highlighting and Note-Taking Engineering Graphics Cod 2110013
 - Interactive Elements Engineering Graphics Cod 2110013
- 8. Staying Engaged with Engineering Graphics Cod 2110013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Graphics Cod 2110013
- 9. Balancing eBooks and Physical Books Engineering Graphics Cod 2110013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Graphics Cod 2110013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Graphics Cod 2110013
 - Setting Reading Goals Engineering Graphics Cod 2110013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Graphics Cod 2110013

- Fact-Checking eBook Content of Engineering Graphics Cod 2110013
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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