

Engineering Drawing Plane And Solid Geometry

This book is developed from the ground up to cover the syllabus announced by the AICTE in its latest model curriculum. It provides insights into traditional engineering graphics as well as treats of the subject using software AutoCAD, CATIA and ANSYS, through simple and well-explained examples along with an ample number of unsolved problems and MCQs. Screenshots have been provided after every step, making it simple to learn how to use the software for a specific solution. It targets all academics—students, and researchers as well as industry practitioners and engineers, involved in engineering drafting. The book begins by introducing the role and application of engineering drawing and describing such basics as the types of drawing sheets, lines, planes, quadrants and angles of projection, and national and international drawing standards which it calls the basic grammar for engineering graphics as a language. The book introduces the software—AutoCAD, CATIA and ANSYS emphasizing on their specific features. Equipping the reader with this ground knowledge it comes to the nitty-gritty of drawing various curves, projection of points in separate quadrants, projection of straight lines in various positions, various projections of plane surfaces, and solids like prism, pyramid, cylinder and cone. It then goes further to sections of solids wherein the placements of the cutting planes have been explained in various positions like perpendicular, parallel, and inclined to HP and VP. Having thus trained the drafter in handling the drafting tools the book graduates to more complicated material like fusion of one solid shape into another. It explores various types of them so that development of lateral surfaces of solids can be made and depicted isometrically and projected orthographically. Lastly, the book describes 3D modelling using CATIA, where solid models are drawn, and how 2D analysis is done using ANSYS.

It helps one to convert his ideas into reality through drawing. This subject also helps one to develop imagination. This book helps both the faculty and students to understand the concepts without the necessity of consulting other books. The book presents step-by-step approach with important notes to remember at the end of each topic. Problems under various categories and university questions are also included in the exercises. The book also covers one "Straight lines" chapter which is not covered in any other book.

Technical Drawing 1 Plane and Solid Geometry

Excerpt from A Text-Book of Engineering Drawing and Design, Vol. 2: Including Practical Geometry, Plane and Solid, and Machine and Engine Drawing and Design; Machine and Engine Drawing and Design All such details, as bolts and nuts, keys and other small and repeated parts, should be left until the size and position of the leading parts have been, finally fixed and drawn, otherwise an alteration in a leading part means a rubbing out of all the details. When the object contains a number of similar parts such as bolts and nuts, the similar circles and lines of each should be drawn in together, and not by finishing each one separately. As far as possible, the student should aim at not having to take a dimension for the same part from his scale or rule more than once. In many of the following examples an effort is made to show the order in which the different parts should be drawn, for it is quite impossible to design properly unless the relation of the different parts to each other is fully and clearly recognised. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Many of the earliest books, particularly those dating back to the 1900s and before, are now extremely scarce and increasingly expensive. We are republishing these classic works in affordable, high quality, modern editions, using the original text and artwork.

This self-contained comprehensive book has been written to cover almost all important topics on engineering drawing to introduce polytechnic and undergraduate students of engineering to the standards and convention of technical drawing. Initial chapters of the book cover basics of line work, engineering scales, engineering curves and dimensioning practices. In the next stage, fundamental principles of projection are discussed in detail. Subsequent chapters cover topics on orthographic projections of points, lines, planes and solids. First-angle projections have been adopted throughout the chapters covering orthographic projection. With a strong emphasis on creating accurate and clear drawings, a chapter on AutoCAD software is also included in the book. The chapter is organized such that it describes the application of the software presenting and applying these standards. More importantly, all the elaborations of the software are alone making use of screen captures taken from the AutoCAD screen so that a novice user will be able to understand its application easily. A large number of solved examples with detailed steps examining methods for solving them have been incorporated to help students solve the unsolved problems.

No matter how far reaching the research of scientists or engineers extends in developing new ideas and concepts, nothing can be built or manufactured without drawings. Completely revised and updated, Engineering Graphics, Second Edition explains the principles and construction of engineering drawing in a clear, concise, and straightforward style. This allows students from different areas of engineering to understand engineering drawings with minimum effort. The book gives students a complete understanding of technical drawing - the basic working tool all engineers must use. See what's new in the Second Edition: § Chapter on Intersection of Surfaces § More than 200 exercises § 100 solved problems § Over 300 illustrations with detailed step-by-step constructional procedure

This Book Provides A Systematic Account Of The Basic Principles Involved In Engineering Drawing. The Treatment Is Based On The First Angle Projection. Salient Features: * Nomography Explained In Detail. * 555 Self-Explanatory Solved University Problems. * Step-By-Step Procedures. * Side-By-Side Simplified Drawings. * Adopts B.I.S. And I.S.O. Standards. * 1200 Questions Included For Self Test. The Book Would Serve As An Excellent Text For B.E., B.Tech., B.Sc. (Ap. Science) Degree And Diploma Students Of Engineering. Amie Students Would Also Find It Extremely Useful.

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This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1917 edition. Excerpt: ... (6) Columns for Discount on Purchases and Discount on Notes on the same side of the Cash Book; (c) Columns for Discount on Sales and Cash Sales on the debit side of the Cash Book; (d) Departmental columns in the Sales Book and in the Purchase Book. Controlling Accounts.--The addition of special columns in books of original entry makes possible the keeping of Controlling Accounts. The most common examples of such accounts are Accounts Receivable account and Accounts Payable account. These summary accounts, respectively, displace individual customers' and creditors' accounts in the Ledger. The customers' accounts are then segregated in another book called the Sales Ledger or Customers' Ledger, while the creditors' accounts are kept in the Purchase or Creditors' Ledger. The original Ledger, now much reduced in size, is called the General Ledger. The Trial Balance now refers to the accounts in the General Ledger. It is evident that the task of taking a Trial Balance is greatly simplified because so many fewer accounts are involved. A Schedule of Accounts Receivable is then prepared, consisting of the balances found in the Sales Ledger, and its total must agree with the balance of the Accounts Receivable account shown in the Trial Balance. A similar Schedule of Accounts Payable, made up of all the balances in the Purchase Ledger, is prepared, and it must agree with the balance of the Accounts Payable account of the General Ledger." The Balance Sheet.--In the more elementary part of the text, the student learned how to prepare a Statement of Assets and Liabilities for the purpose of disclosing the net capital of an enterprise. In the present chapter he was shown how to prepare a similar statement, the Balance Sheet. For all practical...

This Book Provides A Systematic Account Of The Basic Principles Involved In Engineering Drawing. The Treatment Is Based On The First Angle Projection. Salient Features: * Nomography Explained In Detail. * 555 Self-Explanatory Solved University Problems. * Step-By-Step Procedures. * Side-By-Side Simplified Drawings. * Adopts B.I.S. And I.S.O. Standards. * 1200 Questions Included For Self Test. The Book Would Serve As An Excellent Text For B.E., B. Tech., B.Sc. (Ap. Science) Degree And Diploma Students Of Engineering. Amie Students Would Also Find It Extremely Useful.

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.

this book includes Geometrical Drawing & Computer Aided Drafting in First Angle Projection. Useful for the students of B.E./B.Tech for different Technological Universities of India. Covers all the topics of engineering drawing with simple explanation.

Engineering Drawing completely covers the subject as per AICTE. Pedagogically strong and designed for easy learning, the text amplifies the learning of the student with close to 1300 figures and tables. The new book Fundamentals of Engineering Drawing for polytechnics. For 1 yr polytechnic students of all states of India. In accordance with the Bureau of Indian Standards (BIS) SP :46-1988 and IS :696-1972. Simple and Lucid Language with systematic development of subject matter. More than 2000 illustrations were given with proper explanation.

Excerpt from A d104-Book of Engineering Drawing and Design, Vol. 1: Including Practical Geometry, Plane and Solid and Machine and Engine Drawing and Design Ex. 5. - Draw a circle diameter, and divide the circumference into eight equal parts. Join the points, forming a polygon having eight equal sides, known as an octagon. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Technical Drawing 1: Plane and Solid Geometry is the first of three books which together provide comprehensive coverage of all aspects of secondary school technical drawing syllabuses. The three books may be used together or separately to suit a variety of needs.

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