

1: N.D Bhatt Engineering Drawing 50th edition - Study Comfort

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It is a form of parallel projection, here the view direction is orthogonal to the projection plane, resulting in each plane of the scene appearing in affine transformation on viewing surface. It is further divided into Multiview Orthographic projections and Axonometric projection. This projection shows that the object as it looks from the front, right, left, top, bottom, or back, and are positioned relative to each other according to the rules of either first-angle or third-angle projection. The 3-D object is projected into 2-D "paper" space as if you were looking at an X-ray of object: All views are not necessarily used, and determination of surface constitutes the front, back, top and bottom varies depending on projection used. Multiview Orthographic Projections With this projection, upto six pictures of an object are produced, with each projection plane parallel to one of the co-ordinate axes of object. The views are positioned relative to each other according to either of two schemes - first angle or third angle projection. The appearances of views may be of as being projected onto planes that form a six-sided box around the object. Although six different sides can be drawn three sides of a drawing give enough information to make a three-dimensional object. All these views are known as front view, top view and right side view. Example of the orthographic projection is of an upside down vehicle: The views are used when an object contains some sort of the inclined plane. Using the auxiliary view allows for inclined plane to be projected in true size and shape. The true size and shape of any feature in a technical drawings can only be known when the Line of Sight is perpendicular to the plane which is considered as reference. Despite of the fact that auxiliary views are projected onto planes which are inclined to the principal projection planes, they are still classified as orthographic-views. The LOS are still parallel to each other and perpendicular to the plane of projection. Thus when reading lines on the object in this view adjacent to a principal view, the same rules apply to reading lines in adjacent principal-views. To utilize this view to show a surface true size, a view must exist or be drawn where that surface appears as a line. It is not possible to show an oblique surface in a primary auxiliary view. Once a given view showing the surface as a line is identified. Complete auxiliary views are not commonly drawn in industry. It is much more common to see partial auxiliary-views that show only TS features. Since most of the other surfaces will be fore-shortened, a complete auxiliary-view becomes more difficult to read. Isometric Projection The isometric projection shows the object from the angles in which the scales along each axis of the object are equal. The following example shows the elevation of a slab of wood having the raised panel. This plane is either turned down into the horizontal plane or is wheeled into the vertical plane. This projection is a type of axonometric projection. The other two types of axonometric projection are: Here in both the oblique-projection and the orthographic-projection, parallel lines of source object produce parallel lines in the projected image. Perspective Projection The Perspective projection is the approximate representation on a flat surface, of the image perceived by the eyes. The most characteristic features of this projection are that objects are drawn:

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Engineering Drawing Textbook By ND Bhatt PDF - 53rd Edition The Engineering Drawing subject is the most complicated one when compared to the other subjects. The Drawing subject contains the line drawing such as technical drawing used for various machines and others.

Engineering Drawing Text Book is the most essential textbook to prepare for the Engineering examinations. The book provides all aspects and detailed study of Engineering Drawingâ€™ Plane and Solid Geometry, a core subject for all branches of Engineering study, presented in a lucid manner and easy-to-follow style. The text book follows the first-angle method of orthographic projection, however, the third-angle projection method has not been completely ignored. The entire book is printed in two colour which enhance the utility of the book. Students most preferably study the textbook by ND Bhatt to get a good score in the drawing examination. Drawing is the compulsory subject for all B. The Drawing paper consisting of Graphics, Engineering Drawing and other aspects. The Drawing subject will also be a compulsory subject for few of the branches in Diploma. Candidates pursuing the B. It is free of cost to download. Students will get the clear knowledge by downloading and preparing from this book. The Drawing subject contains the line drawing such as technical drawing used for various machines and others. It is the most critical one to learn and tough to get good marks in the examination. So, aspirants keenly learning the Drawing will only get the good score in the subject. Unlike the other subjects, it is not easy to write something in the examination. It is tough to learn and tough to present in the examination. So, students must keenly aware of the Engineering drawing and practice well to clear this examination. The topics related to the machine and other components have to be drawn with the sketch. So, by practising the Engineering Drawing book by ND Bhatt students can understand the subject deeply and easily. Download Engineering Drawing PDF from here and keep practising well to get good marks in the examination.

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Nagar, Natham - , Tamil Nadu, India. Professor, Department of Mechanical Engineering, N. College of Engineering and Technology, Natham. To develop Graphic skills in students. Drawing normal and tangent to the above curves. Projection of points situated in all the four quadrants. Problems involving projection of points, projection of two points situated in different quadrants. Determination of true length and true inclinations of straight lines from the projections not involving traces Projection of plane surfaces like rectangle, square, pentagon, hexagon, circle- surfaces inclined to one reference plane. Section of above solids in simple vertical position axis perpendicular to HP alone by planes either inclined to HP or VP alone- True shape of section. Development of surfaces of vertical cylinder and prism with cylindrical cut outs perpendicular to the axis. Isometric projection of solids like prism, pyramid, cylinder and cone; combination of any two; truncation when solid is in simple vertical position, by a cutting plane inclined to HP. Sekkilar, Anuradha Publication, Revised Edition Bhatt, Charotar Publishing House, 46th Edition. Natarajan, Dhanalakshmi Publishers, Chennai Publication of Bureau of Indian Standards: IS " Technical products Documentation " Size and lay out of drawing sheets. Technical products Documentation " Lettering. Lines for technical drawings. Dimensioning of Technical Drawings. IS Parts 1 to 4 " Technical drawings " Projection Methods. Special points applicable to University Examinations on Engineering Graphics: There will be five questions, each of either or type covering all units of the syllabus. All questions will carry equal marks of 20 each making a total of The answer paper shall consist of drawing sheets of A3 size only. The students will be permitted to use appropriate scale to fit solution within A3 size. Whenever the total number of candidates in a college exceeds , the University Examination in that college will be conducted in two sessions FN and AN on the same day for 50 percent of student approx at a time. The verbal communication may be hopelessly inadequate. The written communication, on the other hand may be very inefficient, lengthy and boring to create accurate mental and physical impression of an item in the mind of the reader. The Engineering Drawing, which is a Graphical Communication of an accurate and unambiguous description of an object, has proved to be an efficient communication method. It is a means of organizing and presenting precise technical directions for items to be produced for the consumers. Engineering Drawing can supply all the information needed with the exactness and details required. It is therefore, one of the principal functions of drawing to convey ideas from the design engineer to the fabricator. Hence, the skill to interpret and construct engineering sketches and drawings is of paramount importance. The engineer may convey his ideas by one or more of the three basic types of projections namely; Orthographic Projection, Oblique Projection or Perspective Projection, depending upon the purpose of the drawing and the person to whom he wishes to convey his ideas. Certain professional areas have different nomenclature such as Machine Drawing, Architectural Drawing, and Structural Drawing.

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Engineering Drawing has ratings and 7 reviews: This book must and should be studied by all type of engineers this is the best book for learning drawing which helps us to know different views of drawing an object.

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