

Interpenetration Of Solids In Engineering Graphics

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Interpenetration Of Solids In Engineering

Interpenetration of Solids Example -1 1 Draw the side view and plan of the prism as required. 2 Complete the corresponding plan and elevation without the intersection lines. 3 Try to imagine the front view and top view and project the intersection points as required. 4 Complete the drawing by joining the intersection lines. Anup Ghosh Engineering Drawing

Engineering Drawing - Aerospace Engg IITKGP

Interpenetration Of Solids By interpenetration is meant the intersection of two bodies of similar or different form, resulting in a regular or irregular figure, as the case may be. Fig. 86. Take a simple case, namely, a cylinder penetrating a rectangular prism at an angle of 60 degrees.

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When two solids Interpenetrate, a line of intersection is formed. It is sometimes necessary to know the exact shape of this line, usually so that an accurate development of either or both of the solids can be drawn. This chapter shows the lines of intersection formed when some of the simpler geometric solids interpenetrate

Intersection of regular solids - Geometric Drawing ...

INTERPENETRATION OF SOLIDS. 1. A square prism of base 50 mm side and height 125 mm stands on the ground with its side of base inclined at an angle of 30° to VP. It is penetrated by a cylinder of diameter 50 mm and axis 125 mm long. The axis of the cylinder is parallel to both HP and VP and bisects the axis of the prism.

Engineering Drawing: INTERPENETRATION OF SOLIDS

INTERPENETRATION OF SOLIDS WHEN ONE SOLID PENETRATES ANOTHER SOLID THEN THEIR SURFACES INTERSECT AND AT THE JUNCTION OF INTERSECTION A TYPICAL CURVE IS FORMED, WHICH REMAINS COMMON TO BOTH SOLIDS. THIS CURVE IS CALLED CURVE OF INTERSECTION AND IT IS A RESULT OF INTERPENETRATION OF SOLIDS. PURPOSE OF DRAWING THESE CURVES:-

INTERSECTION OF SOLIDS - KTU NOTES

Whenever two or more solids combine, a definite curve is seen at their intersection. This curve is called the curve of intersection (COI). CASES OF INTERSECTION The cases of intersection depend on the type of intersecting solids and the manner in which they intersect.

ME 111: Engineering Drawing

interpenetration of solids when one solid penetrates another solid then their surfaces intersect and at the junction of intersection a typical curve is formed, which remains common to both solids. this curve is called curve of intersection and it is a result of interpenetration of solids. purpose of drawing these curves:-

Intersection of Surfaces - GRIET - Department of ...

made from common solids that are composed of parallel lateral edges or elements. e.g. Prisms and cylinders The cylinder is positioned such that one element lies on the development plane. The cylinder is then unrolled until it is flat on the development plane. The base and top of the cylinder are circles, with a circumference equal to the length of

ME 111: Engineering Drawing

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Unit 7 Interpenetrations of solids - LinkedIn SlideShare

lines of the two solids intersect at point O, and a true view along the line AB will produce an ellipse. When cylinders of equal diameter intersect as shown in Fig. 12.8 the line at the intersection is straight and at 45°.

Interprntation - Engineering Drawing - Joshua Nava Arts

Intersection - ENGINEERING DRAWING 1. INTERPENETRATION OF SOLIDS WHEN ONE SOLID PENETRATES ANOTHER SOLID THEN THEIR SURFACES INTERSECT AND AT THE JUNCTION OF INTERSECTION A TYPICAL CURVE IS FORMED, WHICH REMAINS COMMON TO BOTH SOLIDS. THIS CURVE IS CALLED CURVE OF INTERSECTION AND IT IS A RESULT OF INTERPENETRATION OF SOLIDS.

Intersection - ENGINEERING DRAWING

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Engineering Drawing

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interpenetration of solids - Interpenetration of Solids ...

11. Intersection of Solids Interpenetration of geometrical solids, covering intersections between: a. Two prisms b. Two cylinders c. Prism and cylinder d. Cone and prism/cylinder e. Pyramid and prism/cylinder f. Sphere/hemisphere and prism/cylinder g. Sphere and cone All solids are right, with the cones and pyramids standing on their bases.

ENGINEERING DRAWING AM 09 SYLLABUS

Draw the curve of interpenetration—the line along which the surface of a solid penetrates another solid—when either a prism, a pyramid, a cone, a sphere, or a cylinder is completely penetrated by a prism or a cylinder

Chapter 10. Intersection of Surfaces - Engineering Drawing ...

To find the lines of interpenetration we find points that both solids have in common and join them together. For flat surfaced solids the easiest way of doing this is to use the corners of the solid. In the case of curved surfaces we break the curve into sections using generators. We pretend these generators are edges.

Technical Drawing - Interpenetration - Introduction

INTERPENETRATION OF SOLIDS WHEN ONE SOLID PENETRATES ANOTHER SOLID THEN THEIR SURFACES INTERSECT AND AT THE JUNCTION OF INTERSECTION A TYPICAL CURVE IS FORMED, WHICH REMAINS COMMON TO BOTH SOLIDS. THIS CURVE IS CALLED CURVE OF INTERSECTION AND IT IS A RESULT OF INTERPENETRATION OF SOLIDS.

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