

Exercise 02565-03

Introduction to Pro/ENGINEER - Part 1

Reading

ProEngineer - Core and Part Topic Collection.

Purpose

The purpose of this exercise is to get started with Pro/ENGINEER and to learn the concepts of feature based modelling. You learn to define features and to combine them into parts. You also learn to use the Sketcher when defining a feature.

Part 1

Make a geometric model of a box with the dimensions 30 x 50 x 80 cm.

Save the object.

Make a geometric model of a cylinder with a diameter of 50 cm and a height of 100 cm. Save the object.

Make a truncated cone with diameters 50 and 30 and height 20.

Make a torus with radius 10 and 50.

Make a sphere with radius 60.

Part 2

Make a box with a base plane of 40 x 60 cm and height 20. Place a cylinder of radius 5 and height 30 on the box, the axis of the cylinder being situated 10 cm from one of the short edges and 15 cm from one of the long edge.

Part 3

Make the same exercise as above except for one point in the base plane being moved 5 cm in both directions in a way which makes the base plane larger.

Part 4

Make geometric models of the objects in appendices A, B, and C.

ProEngineer Start

To start ProEngineer type **pro2001** in a shell of a SGI-O2 computer.

It is mandatory to have write access to the start directory.

If your path has not been set you must use the full path

/appl/rproeng/pro2001/bin/pro2001

