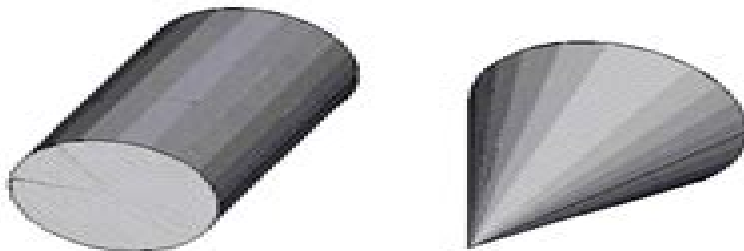


Building your model from the top down: The ANSYS program also gives you the ability to assemble your model using *geometric primitives*, which are fully-defined lines, areas, and volumes. As you create a primitive, the program automatically creates all the "lower" entities associated with it. If your modeling effort begins with the "higher" primitive entities, you are said to be building your model "from the top down." You can freely combine bottom up and top down modeling techniques, as appropriate, in any model. Remember that geometric primitives are built within the working plane while bottom up techniques are defined against the active coordinate system. If you are mixing techniques, you may wish to consider using the **CSYS,WP** or **CSYS,4** command to force the coordinate system to follow the working plane.

Figure 5.2 Top Down Constructions (Primitives)

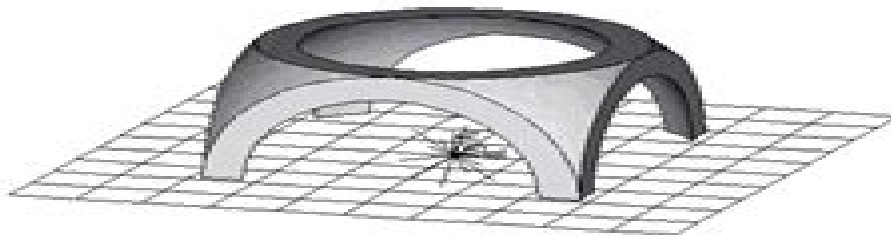


Note

Solid modeling operations in a toroidal coordinate system are not recommended. Areas or volumes generated may not be what you expect.

Using Boolean operators: You can "sculpt" your solid model using intersections, subtractions, and other Boolean operations. Booleans allow you to work directly with higher solid model entities to create complex shapes. (Both bottom up and top down creations can be used in Boolean operations.)

Figure 5.3 Create Complex Shapes With Boolean Operations



Dragging and rotating: Boolean operators, although convenient, can be computationally expensive. Sometimes a model can be constructed more efficiently by dragging, or rotating.

Modelling And Meshing Guide

AW Rasmussen



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