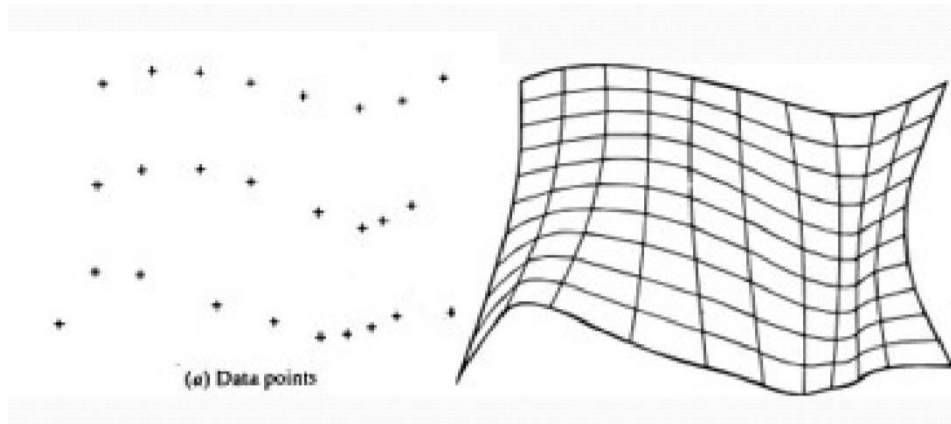
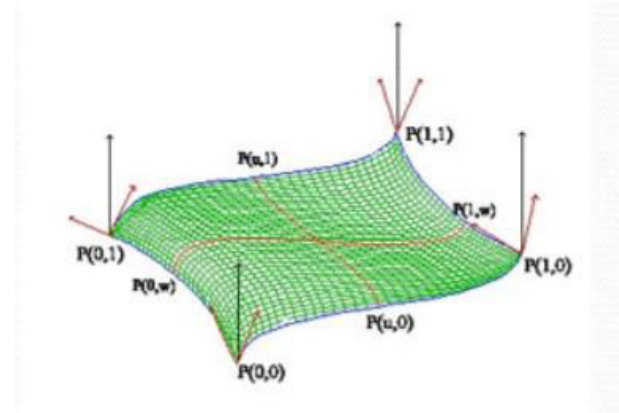
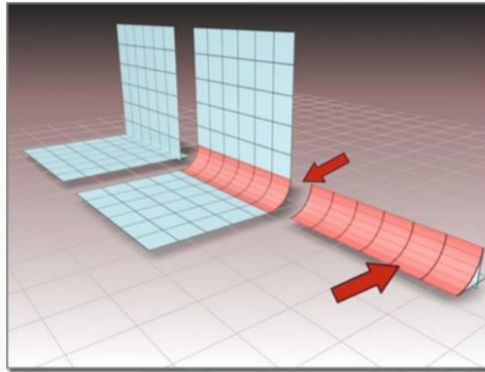
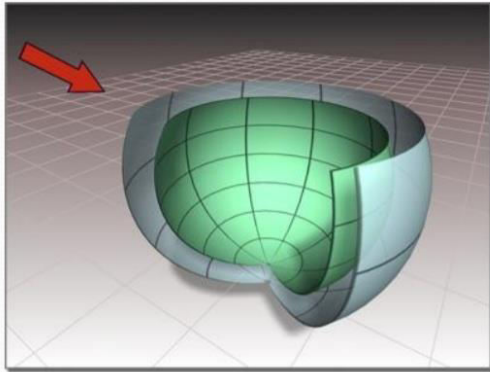


B-spline surface

This is a surface that can approximate or interpolate given input data. It is a synthetic surface. It is a general surface like the Bezier surface but with the advantage of permitting local control of the surface.

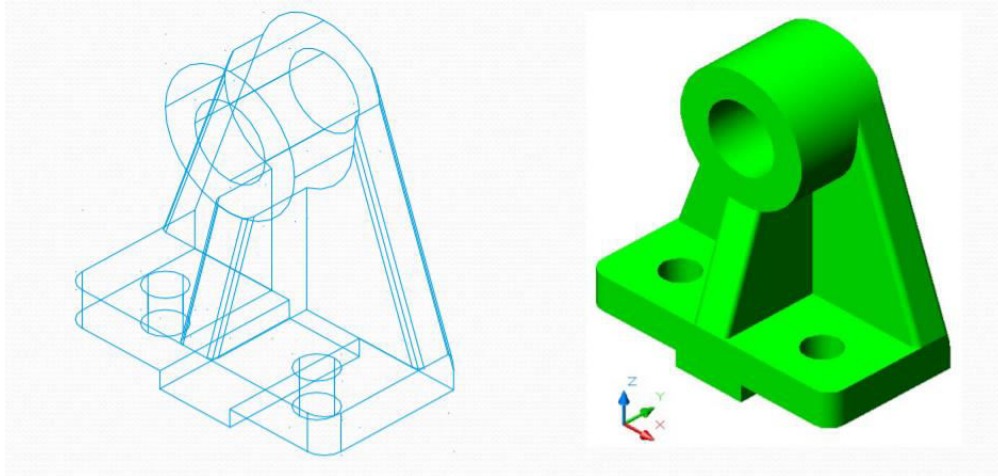


☐ Coons patch ☐ Fillet surface ☐ Offset surface



Solid Modeling

In the solid modeling, the solid definitions include vertices (nodes), edges, surfaces, weight, and volume. The model is a complete and unambiguous representation of a precisely enclosed and filled volume



Methods of Creating Solid Models

- ☐ Constructive Solid Geometry (CSG), CAD packages; Unigraphics, AutoCAD – 3D modeler.
- ☐ Boundary Representation (B-rep), mostly used in finite element programs.
- ☐ Parametric Modeling, CAD packages: SolidWorks, Pro/Engineer

Primitive solids

Primitive creation functions:

These functions retrieve a solid of a simple shape from among the primitive solids stored in the program in advance and create a solid of the same shape but of the size specified by the user

