The basic characteristics of stamping

There are a lot of the time stamping production in the forming process, has a variety of forms and names, but the plastic deformation of the essence is the same. Forming process has the following outstanding.
(1). The unit area perpendicular to the direction of the plate surface on the pressure, the numerical defecate enough to make the plate in the plate direction cause plastic deformation. The perpendicular to the surface direction of the unit area pressure is far less than the surface quality of internal stress direction, so most of the stamping deformation can be approximated as a plane stress state to processing, calculation and analysis and process parameters so that the deformation of the high sense of work has been greatly simplified.
(2). Due to the relative thickness of stamping forming for sheet blank is very small, the pressure should be anti instability capability is poor under the action of stress, so there is no anti buckling device (such as the edge pressing ring etc.) conditions, it is very difficult to finish smoothly in the free state of stamping forming process. Therefore, to extend the class of stamping tensile stress based forming process than compression type forming process is dominated by compressive stress.
(3). Stamping forming, numerical plate is equal to the wool embryo internal stress or yield less than the material stress. At this point, stamping and forming different volume. Therefore, the area should influence of hydrostatic pressure component force state of forming limit and the deformation resistance of deformation during stamping forming, has lost its importance in forming, in some cases, may be considered, even if it is necessary to consider, its processing method is not the same.