Advanced Solid Modeling

Basic of CAE

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Mechatronics EngineeRing

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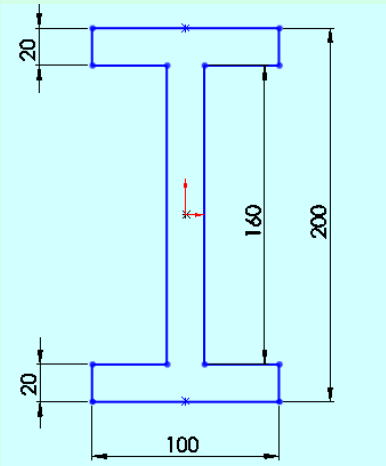
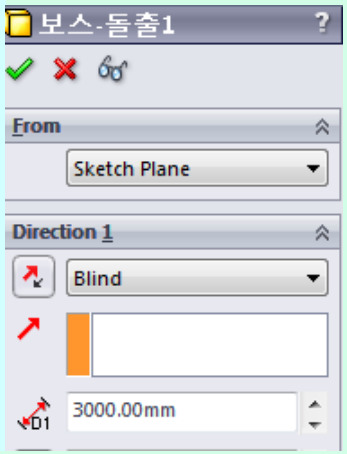
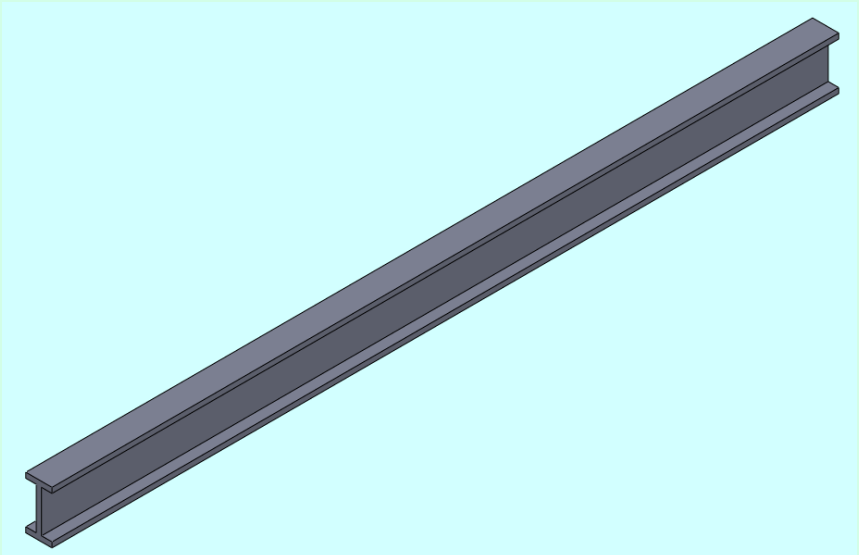
CAE Example

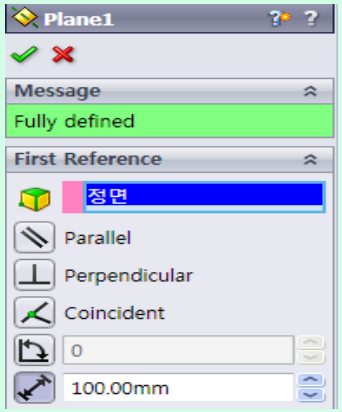
- Simple Model

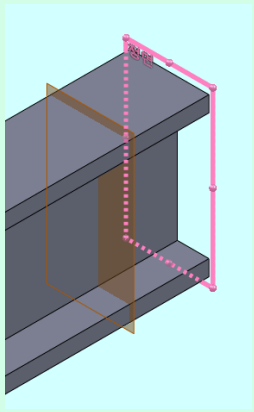
- Build the following part.

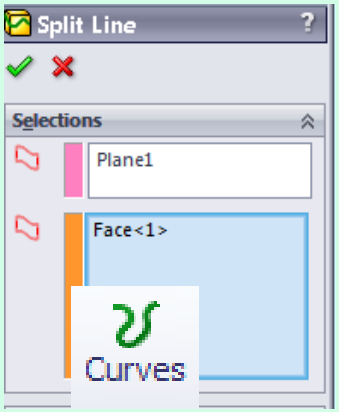


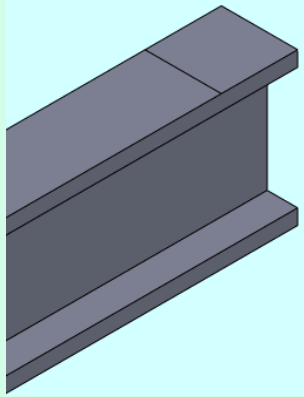








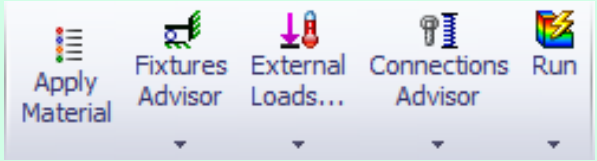


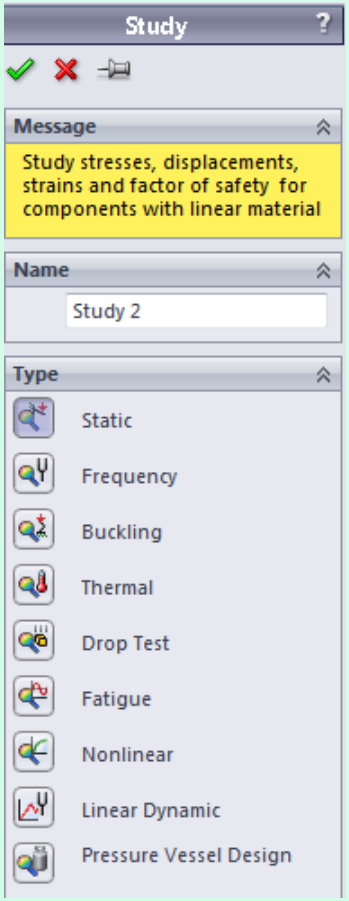


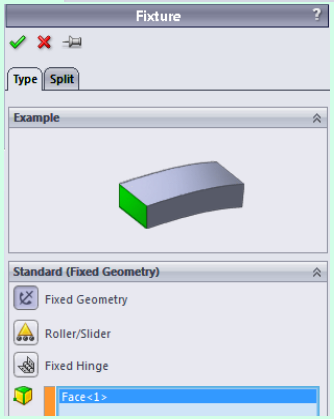
CAE Example

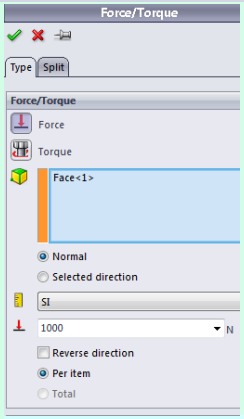
- Simple Model

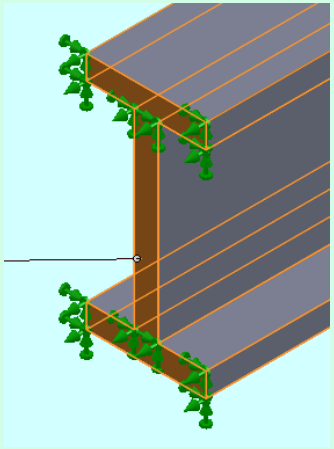
- Static Analysis.

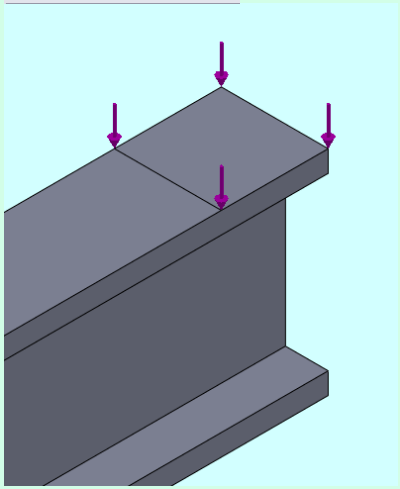






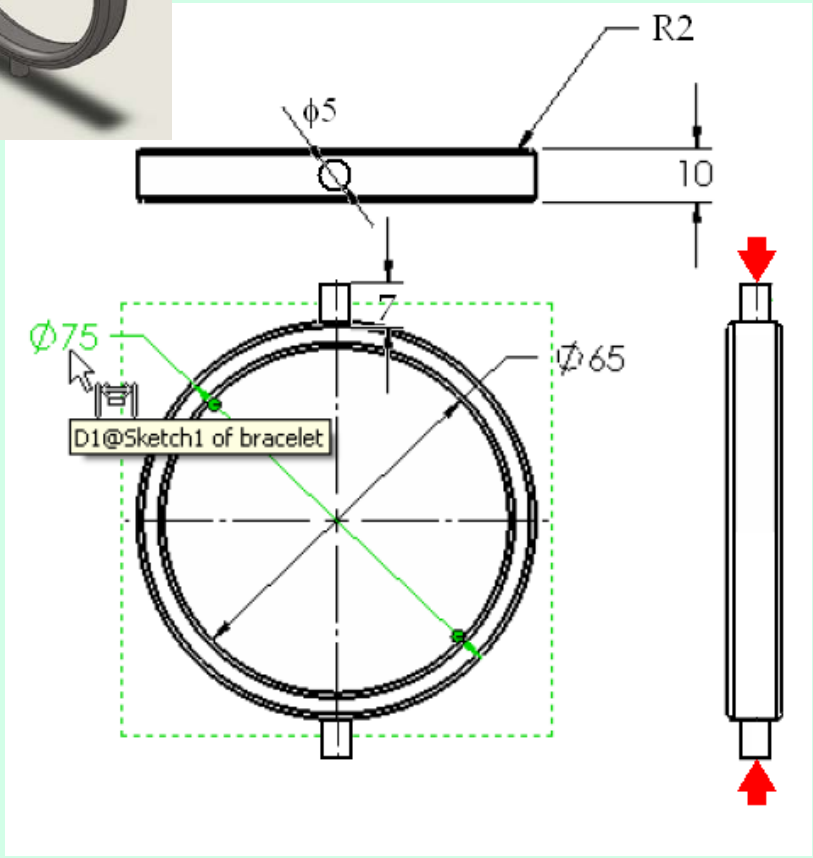






& MESHING
& GO!!!

CAE role 1



그림과 같은 링 부재(Alloy steel)의 상하 돌출부에 각각 힘 2kN이 작용할 때 솔리드웍스를 이용하여 정적해석 수행

- 안전계수를 3으로 할 때의 불안정영역
- 피로해석 방법
- 2kN의 힘을 가하였을 때 링이 탄성역에서 정적안정성을 가지도록 설계 (단 링의 외경과 내경 및 돌출부의 직경은 변화시킬 수 없음)
- 모드 해석 실행