Loads

- **LE4 - Loads Methods (General)**

Loads

- **LE4 - Loads Methods (General)**

  - Three type of loads analysis methods are commonly used industry wide:
    - Static analysis:
      - Condition linked to a stabilized phenomena, the time is not a parameter.
      - Associated to one loading case, all loads are simultaneous.
        - Ex: longitudinal steady maneuver, Gust using the “Pratt formula”
    - Dynamic analysis:
      - The analyzed phenomena is time dependent.
      - The associated case is represented by a set of loading cases derived at each step of time of the analysis.
      - All maximum loads do not happen at the same time (correlated loads).
        - Ex: yawing maneuver, discrete gust.
    - Statistical analysis:
      - The phenomena under analysis is “random” and the method used for loads derivation is obtained by applying an appropriate statistical analysis.
        - Ex: continuous turbulence.

Loads

- **LE4 - Loads Methods (General)**
  - Models, Methods and conditions links could be represented as follow: