

| Description of Mass parameters | | |
|------------------------------------|---|-----------------------|
| Parameter | Description | Units |
| Mass index i | Mass index number (automatically provided) | |
| Fraction of external torque | Fraction (%) of the total external mechanical torque which is associated with the given mass. If the total is greater than 100% a scaling factor will be applied. | % |
| Moment of inertia | Moment of inertia of mass number i. | kgm ² /rad |
| Speed deviation damping | The speed deviation (DSR) self-damping coefficient for the given mass. By definition: $T_i = \text{DSR} \cdot (\omega_i - \omega_S)$ where T_i is the particular damping torque for mass i, ω_i is the angular velocity of mass i, and ω_S is the synchronous mechanical velocity of this shaft system. | Nms/rad |
| Mutual damping | The mutual damping coefficient (DSM) pertains to the selected mass (i) and the next mass (i+1). The damping is a function of the velocity difference between the two masses: $T_i = \text{DSM} \cdot (\omega_i - \omega_{i+1})$ where T_i is the particular damping torque between the two masses. | Nms/rad |
| Spring constant | The spring constant (HSP) pertains to the elastic connection between the selected mass (i) and the next mass (i+1). | Nm/rad |
| Absolute speed damping | The absolute speed self-damping coefficient (DSD) of the selected mass. By definition: $T_i = \text{DSD} \cdot \omega_i$ where T_i is the particular damping torque for mass i. | Nms/rad |