The original model-free equation

$$J(\omega) = \frac{2}{5} (\frac{S^2.t_m}{1 + (\omega t_m)^2} + \frac{(1 - S^2)t_e'}{1 + (\omega t_e')^2})$$

The extended model-free equation

$$J(\omega) = \frac{2}{5}(\frac{S^2.t_m}{1+(\omega t_m)^2} + \frac{(1-S_f^2)t_f'}{1+(\omega t_f')^2} + \frac{S_s^2(1-S_f^2)t_s'}{1+(\omega t_s')^2})$$