

$$E_c = A_c \left[1 + m \sum_{n=1}^{\infty} C_{sn} \cos(\omega_{sn} t + \phi_{sn}) \right].$$

$$\cos \left[\omega_c t + \tan^{-1} \frac{m \sum_{n=1}^{\infty} C_{dn} \cos(\omega_{dn} t + \phi_{dn}) + .05 \sin 50\pi t}{1 + m \sum_{n=1}^{\infty} C_{sn} \cos(\omega_{sn} t + \phi_{sn})} \right]$$