

$$T_1 = 2\pi \left( \frac{\sum_{i=1}^N M_i d_{fi}^2}{\sum_{i=1}^N F_{fi} d_{fi}} \right)^{1/2} \quad (2.12)$$

Fictitious load  $F_{fi}$  acting on the  $i$ 'th storey may be obtained from **Eq.(2.7)** by substituting any value (*for example a unit value*) in place of  $(V_b - \Delta F_N)$ .

### 2.3.5. Directional Combination

**2.3.5.1** – The maximum value of each response quantity due to two horizontal components of the earthquake may be estimated by the square root of the sum of the squared values of the response quantities calculated due to each horizontal component.

**2.3.5.2** – As an alternative to **2.3.5.1**, the combination procedure given by **Eq.(2.13)** may be employed:

$$\begin{aligned} Q_D &= \pm Q_x \pm 0.30 Q_y \\ Q_D &= \pm 0.30 Q_x \pm Q_y \end{aligned} \quad (2.13)$$