

4.4.3.2 Incorporating the stiffness and mass contribution of adjacent bays: For floors with an adjacent row of parallel bays, the modal mass and frequency should be further multiplied by factors K_{mass} and K_{freq} , respectively, from Figures 4.10a and 4.10b.

Here the main bay under consideration has span L_a and the adjacent bay has span L_b . It is assumed that the mass per unit area, m , of the two bays is the same. The degree of interaction between the bays is related to the ratio of their natural frequencies, f_b/f_a , in the span direction. In general, this may be expressed as:

$$\frac{f_b}{f_a} = \sqrt{\frac{D_a + L_a^2}{D_b + L_b^2}} \quad (4.18)$$

where the suffixes a and b refer to the two spans.

And so, for floor arrangements such as type a) in Figure 4.8:

$$f_b = K_{\text{mass}} K_{\text{freq}} f_a \quad (4.19)$$

$$\text{and } m = \frac{m D_a K_{\text{mass}}}{4} \quad (4.20)$$

Figure 4.10a
Modal mass factors for a bay with an adjacent parallel bay.

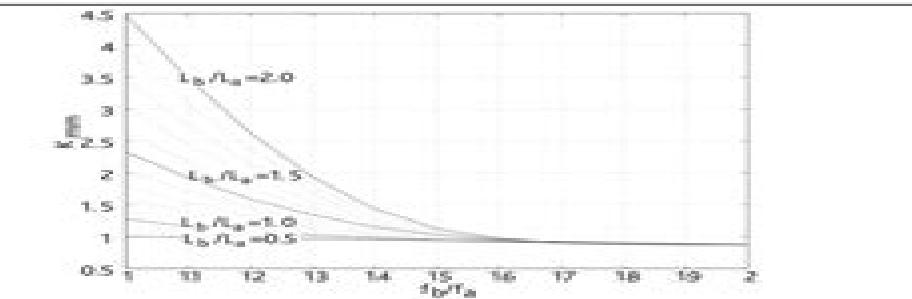
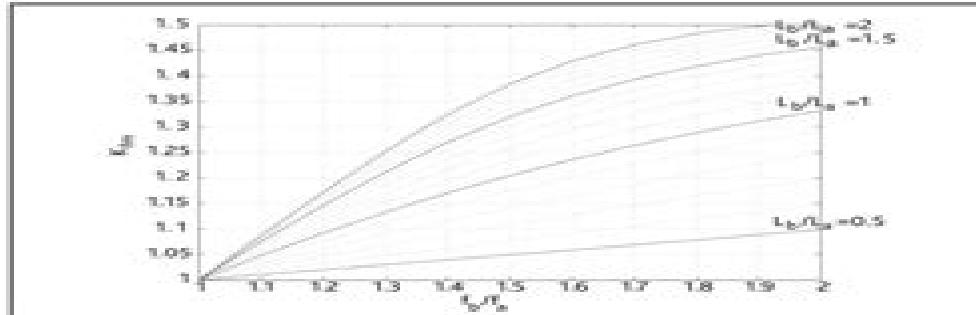


Figure 4.10b
Natural frequency factors for a bay with an adjacent parallel bay.



Design Guide For Footfall Induced Vibration

James P. Cowan, Acentech (Firm)

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