

FIGURE 3.12. Graphical construction of combination modes in a square isotropic plate: (a) $(2, 0) - (0, 2)$, x mode; (b) $(2, 0) + (0, 2)$, ring mode; (c) $(2, 1) - (1, 2)$ mode; and (d) $(2, 1) + (1, 2)$ mode.

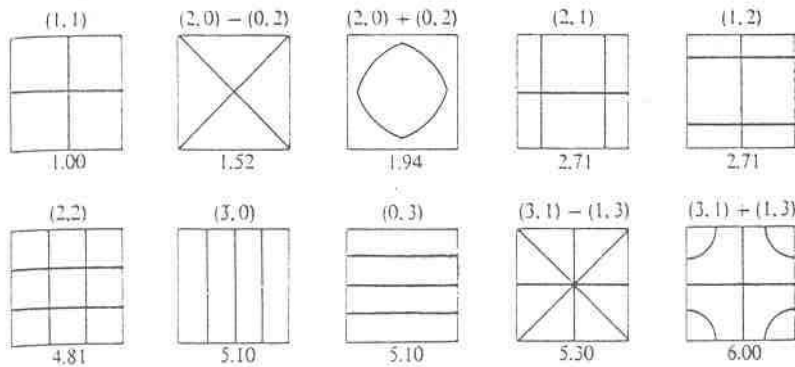


FIGURE 3.13. The first 10 modes of an isotropic square plate with free edges. The modes are designated by m and n , the numbers of nodal lines in the two directions, and the relative frequencies for a plate with $\nu = 0.3$ are given below the figures.