

Modal Vibrations of Flat 2-D Rectangular Plates & Stretched 2-D Rectangular Membranes:

B.C.'s: Edges of a flat rectangular plate can be *fixed* or *free*, or *simply supported*...

⇒ different boundary conditions for 2-D wave equation on rectangular plate...

⇒ different allowed solutions for vibrational modes – again, two indices m, n

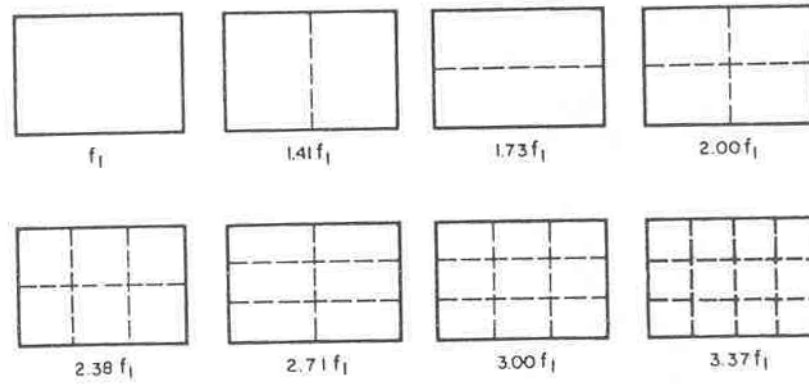


FIG. 15. Some of the modes of vibration of a stretched rectangular membrane. The length of the membrane is 1.41 times the width.

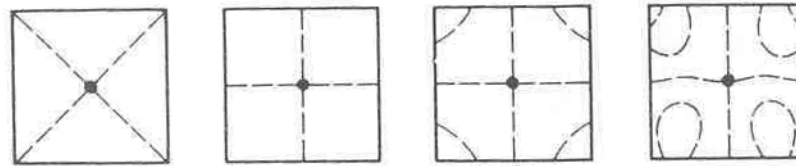


FIG. 16. Some of the modes of vibration of a square plate fixed at the center and set into oscillation by bowing.