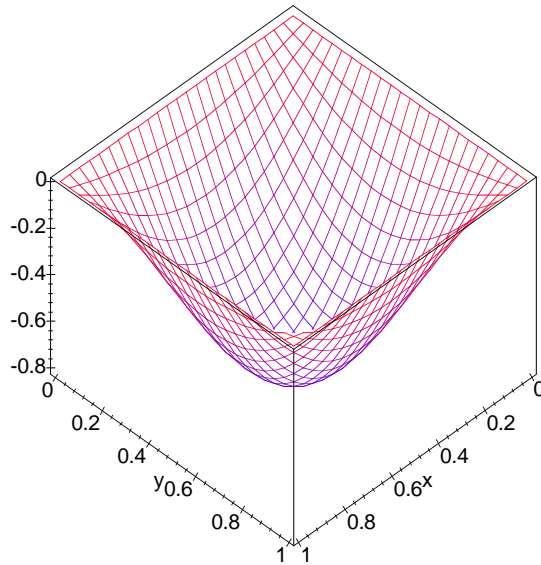


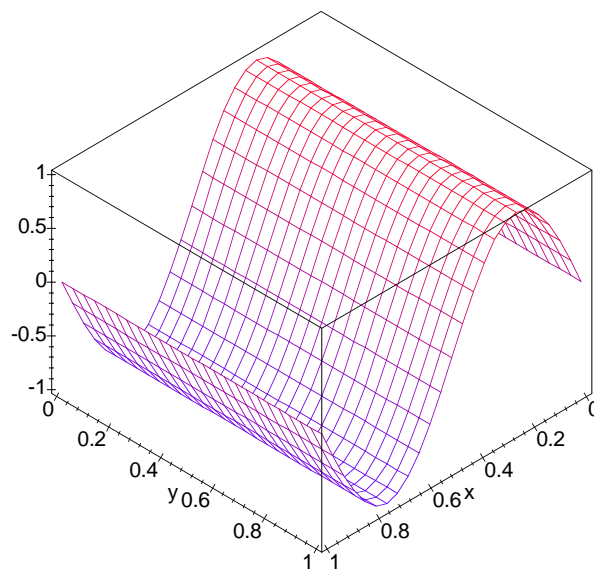
Gallery of Deformed Square Plates

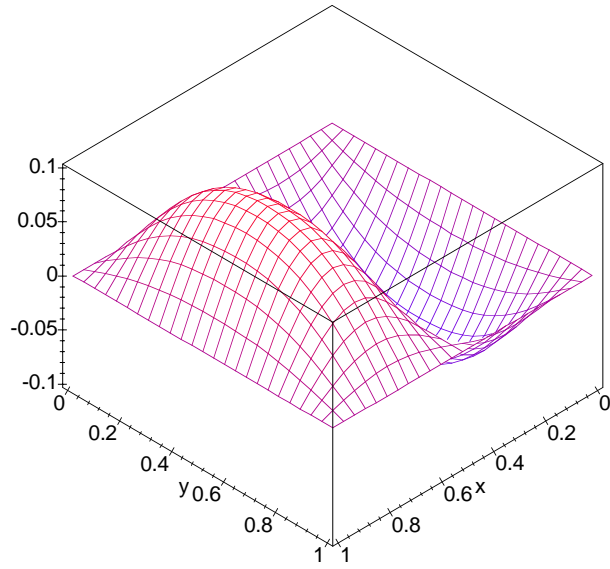
This gallery contains sketches of displacement fields for simply supported square plates under different loading conditions. These are all based on an $N = 3 = M$ truncation as in the paradigm.

a. Uniform load



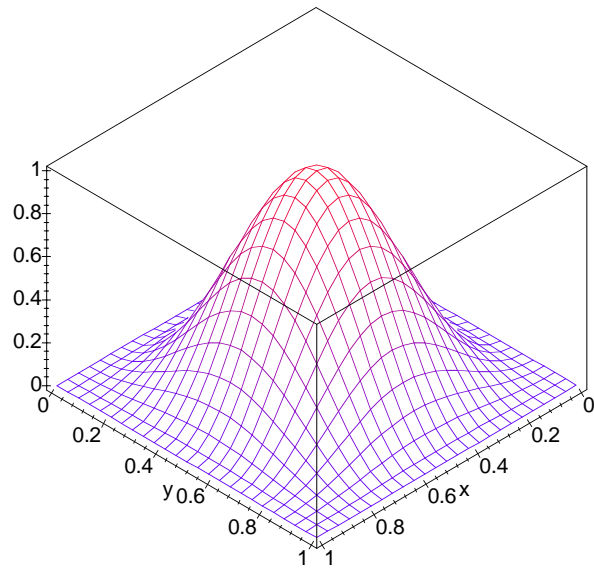
b. Sinusoidal load as shown

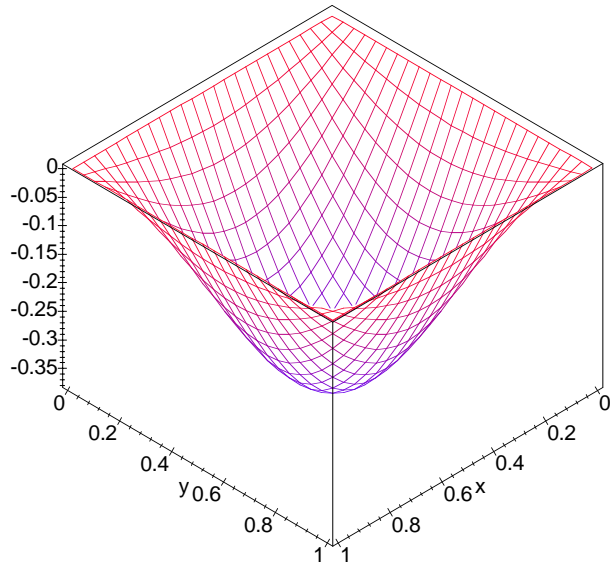




c. Center weighted load

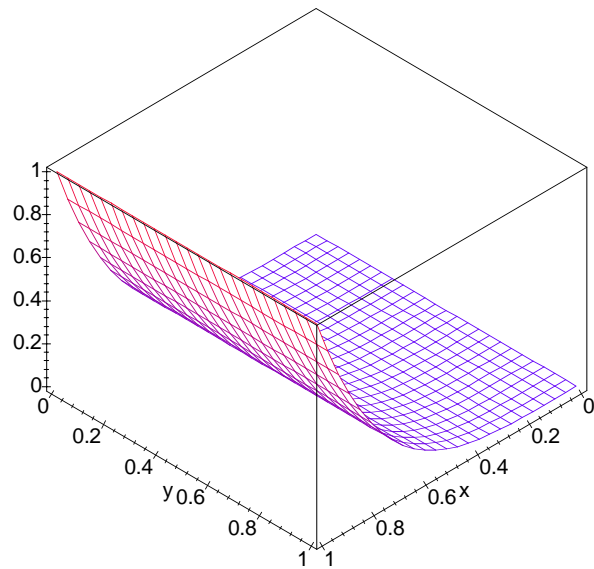
$$\text{stress} := q \cdot \sin(\pi \cdot x/a)^2 \cdot \sin(\pi \cdot y/b)^2:$$





d. Asymmetric load
 $\text{stress} := q \cdot (x/a)^4 :$

Load



Deflection

