

1 Aim

This test case is for checking the capability of the written Isogeometric analysis code with a linear elastic loading.

2 Problem description

A 2D plate is subjected to mechanical loading as shown in Figure(2). The material used is PZT-PIC151 ceramics. The movement of bottom edge AB is fixed in y-direction and left edge AC in x-direction. A displacement of 0.1 mm is given on the right edge BD.

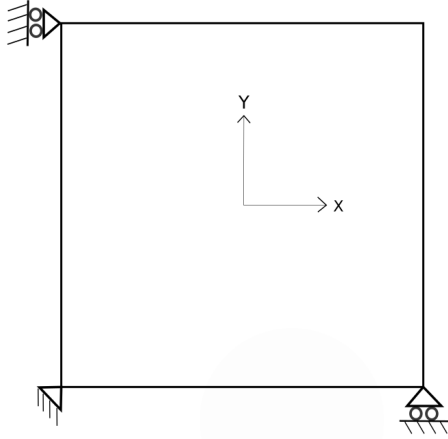


Figure 1: 2D Plate

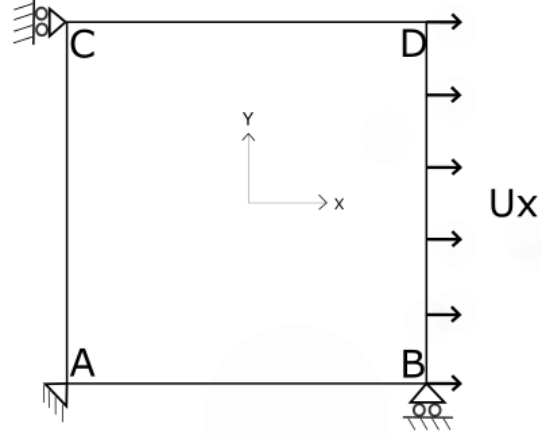


Figure 2: 2D Plate with loading