

MEK 4250 Elementmethod

Mandatory Assignment

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Problem 1

In this exercise we are faced with a problem on the domain $\Omega = (0, 1)^2$

$$-\nabla u = f \text{ in } \Omega \tag{1}$$

$$u = 0 \text{ for } x = 0 \text{ and } x = 1 \tag{2}$$

$$\frac{\partial u}{\partial n} = 0 \text{ for } y = 0 \text{ and } y = 1 \tag{3}$$