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## **AN INTRODUCTION TO THE FINITE ELEMENT METHOD**

The finite element method (FEM), or finite element analysis (FEA), is a computational technique used to obtain approximate solutions of boundary value problems in engineering. Boundary value problems are also called field problems. The field is the domain of interest and most often represents a physical structure.

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12 CHAPTER 0. INTRODUCTION In order to determine a solution  $u(x)$  uniquely (see Remark 0.1 below), the differential equation is complemented by boundary conditions imposed at the boundary points  $x=0$  and  $x=1$ ; for example  $u(0) = u_0$  and  $u(1) = u_1$ , where  $u_0$  and  $u_1$  are given real numbers. b. Boundary value problems in  $R^n$  Example 0.5.

## **An Introduction to the Finite Element Method (FEM) for**

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