

Finite Elements

6.13 One-Dimensional Finite Elements. A one-dimensional element may be defined in a manner similar to that in Section 6.5.1.1 by assuming a section of a line of finite length, two points at its ends with coordinates (x_1) and (x_2) , and unknown values ϕ_1 and ϕ_2 as shown in Figure 6.50:

- (a) For this element, calculate the shape functions necessary to define the element by assuming a linear variation inside the element of the form $\phi(x) = a + bx$.
- (b) With the shape functions in (a), find an expression for the function $\phi(x)$ inside the element in terms of the shape functions.
- (c) Show that the magnitude of N_1 [shape function at node (1)] is 1 at node (1) and zero at node (2).
- (d) Show that the magnitude of N_2 [shape function at node (2)] is 1 at node (2) and zero at node (1).
- (e) Show that the sum of the shape functions at any point $x_1 \leq x \leq x_2$ equals 1.



Figure 6.50

One Dimensional Finite Elements One Dimensional Finite Elements

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