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The following
are the general
steps of the
finite element
method. Step 1
Divide the body
into an
equivalent
system of finite
elements with
associated nodes

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and choose the most appropriate element type.

Step 2 Choose a displacement function within each element.

Step 3 Relate the stresses to the strains through the stress/strain law—generally

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$$K]^{-1} \{F\} = \{d\}$$

Using the

adjoint method

to find $[K^{-1}]$

$$C_{11} = k_2 + k_3.$$

$$C_{21} = (-1)^3 (-$$

$$k_2) \quad C_{12} = (-1)^1$$

$$+ 2 (-k_2) = k_2.$$

$$C_{22} = k_1 + k_2$$

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element method
are the ability
to (1) Model
irregularly
shaped bodies
quite easily (2)
Handle general

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without

difficulty (3)

Model bodies

composed of

several

different

materials

because element

equations are

evaluated

individually (4)

Handle unlimited

numbers and

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boundary

conditions (5)

Vary the size of
the elements to
make it possible
to use small
elements where
necessary

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