4.7: Introduction to Finite Element Method (FEM)

For an FEM problem given by the equation $Lu = b$, what does each term symbolize?

A. $L$ is the integral of the PDE with the basis, $u$ is unknown, $b$ is the stiffness.

B. $L$ is the frequency matrix, $u$ is the integral of the PDE with the basis, $b$ is the stiffness.

C. $L$ is the mass matrix, $u$ is the integral of PDE with the basis chosen, $b$ is the shape function.

D. $L$ is the mass matrix, $u$ is unknown, $b$ is the shape function.

E. $L$ is the stiffness matrix, $u$ is unknown, $b$ is the integral of PDE with the basis chosen.