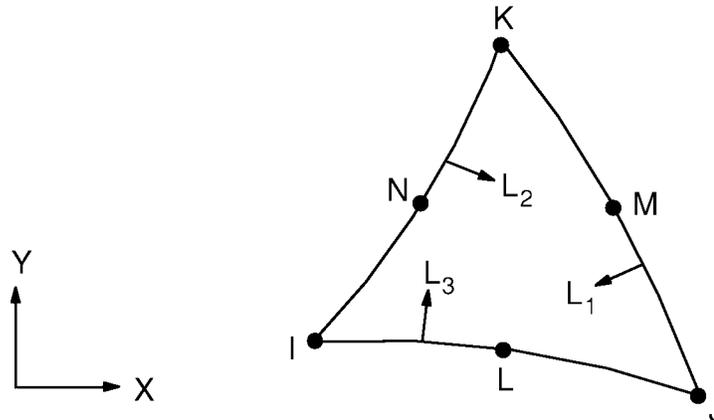


## 14.2 PLANE2 — 2-D 6-Node Triangular Structural Solid



Matrix or Vector	Shape Functions	Integration Points
Stiffness Matrix	Equation (12.6.2-1) and (12.6.2-2)	3
Mass Matrix	Same as stiffness matrix	3
Stress Stiffness Matrix	Same as stiffness matrix	3
Thermal Load Vector	Same as stiffness matrix	3
Pressure Load Vector	Same as stiffness matrix, specialized to the face	2

Load Type	Distribution
Element Temperature	Same as shape functions
Nodal Temperature	Same as shape functions
Pressure	Linear along each face

Reference: Zienkiewicz(39)

## 14.2.1 Other Applicable Sections

Chapter 2 describes the derivation of structural element matrices and load vectors as well as stress evaluations. Section 13.1 describes integration point locations.