14.87   SOLID87 — 3–D 10–Node Tetrahedral Thermal Solid
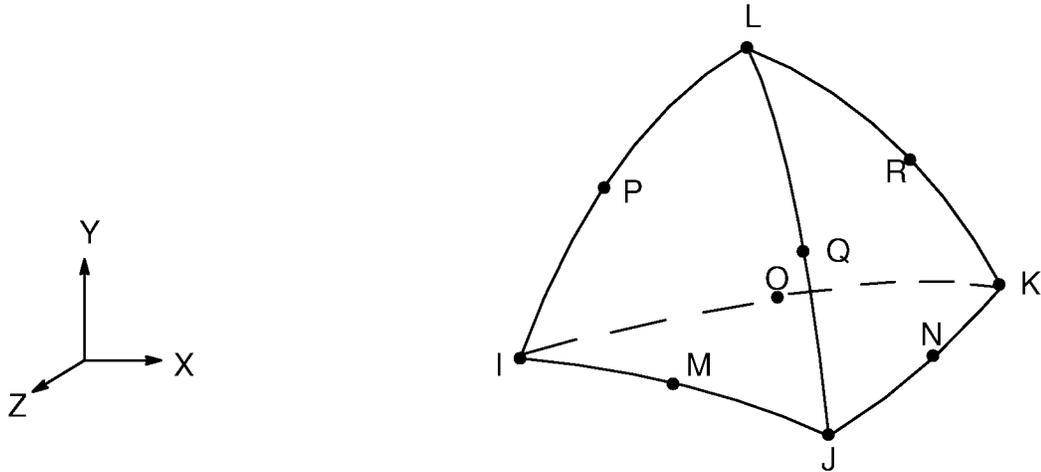
Matrix or Vector	Shape Functions	Integration Points
Conductivity Matrix	Equation (12.8.2–20)	4
Specific Heat Matrix	Same as conductivity matrix. If KEYOPT(1) = 1, the matrix is diagonalized as described in Section 13.2	11
Heat Generation Load Vector	Equation (12.8.2–20)	4
Convection Surface Matrix and Load Vector	Equation (12.8.2–20) specialized to the face	6

14.87.1   Other Applicable Sections

Chapter 6 describes the derivation of thermal element matrices and load vectors as well as heat flux evaluations. Section 13.1 describes integration point locations. If KEYOPT(1) = 1, the specific heat matrix is diagonalized as described in Section 13.2.