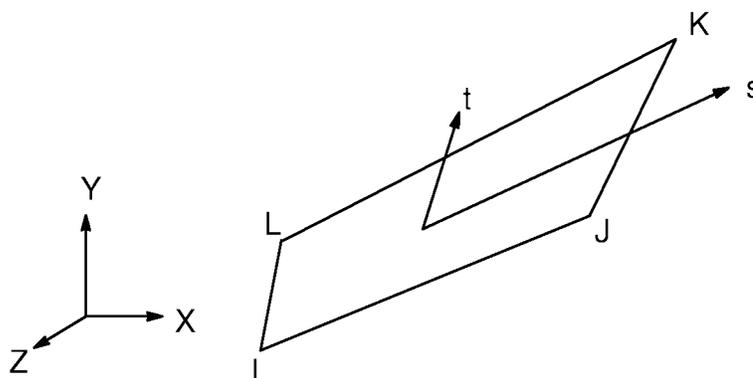


14.157 SHELL157 — Coupled Thermal–Electric Shell



Matrix or Vector	Shape Functions	Integration Points
Conductivity Matrix	Equations (12.5.8–20) and (12.5.8–21)	2 x 2
Specific Heat Matrix	Same as conductivity matrix. Matrix is diagonalized as described in Section 13.2	2 x 2
Heat Generation Load Vector	Same as conductivity matrix	2 x 2
Convection Surface Matrix and Load Vector	Same as conductivity matrix	2 x 2

14.157.1 Other Applicable Sections

Section 11.2 discusses thermal–electric elements. Section 13.1 describes integration point locations.