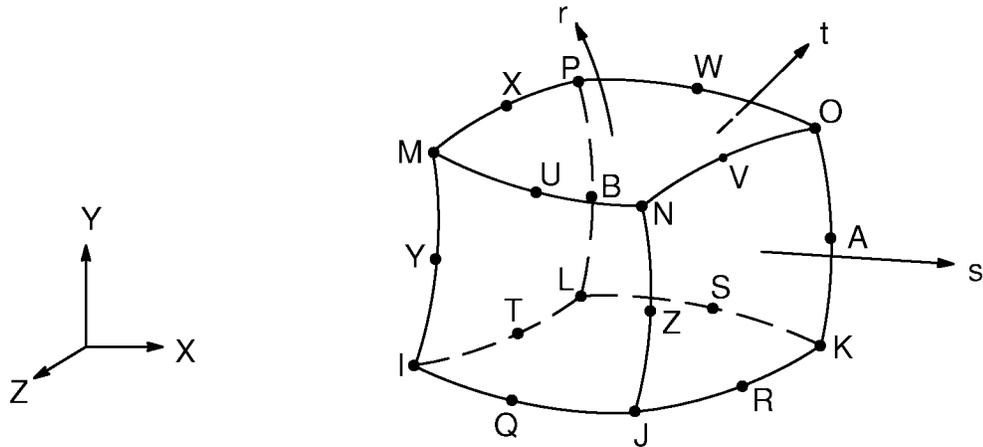


14.122 SOLID122 — 20–Node Electrostatic Solid



Matrix Or Vector	Geometry	Shape Functions	Integration Points
Coefficient Matrix	Brick	Equation (12.8.20–21)	14
	Wedge	Condensation of equation (12.8.20–21)	3 x 3
	Pyramid	Equation (12.8.7–21)	8
	Tet	Equation (12.8.2–21)	4
Charge Density Load Vector	Same as coefficient matrix		Same as coefficient matrix
Surface Charge Density Load Vector	Quad	Equation (12.5.10–21)	3 x 3
	Triangle	Equation (12.5.2–21)	6

14.122.1 Other Applicable Sections

Chapter 5 describes the derivation of electrostatic element matrices and load vectors as well as electric field evaluations. Section 13.1 describes integration point locations.