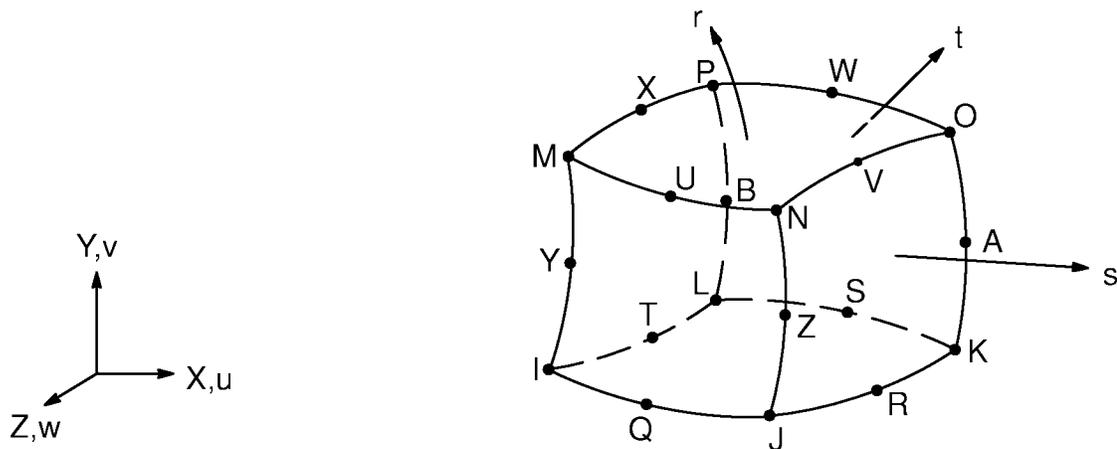# 14.128 SOLID128 — Brick Electrostatic p–Element

Matrix or Vector	Geometry	Geometric Shape Functions	Solution Shape Functions	Integration Points
Coefficient Matrix	Brick	Equations (12.8.20–1), (12.8.20–2), and (12.8.20–3)	Polynomial variable in order from 2 to 8	Variable
	Wedge	Equations (12.8.14–1), (12.8.14–2), and (12.8.14–3)	Polynomial variable in order from 2 to 8	Variable
Charge Density Load Vector	Same as coefficient matrix		Polynomial variable in order from 2 to 8	Variable

Matrix or Vector	Geometry	Geometric Shape Functions	Solution Shape Functions	Integration Points
Surface Charge Density Load Vector	Quad	Equations (12.5.10–1) and (12.5.10–2)	Polynomial variable in order from 2 to 8	Variable
	Triangle	Equations (12.5.2–1) and (12.5.2–2)	Polynomial variable in order from 2 to 8	Variable

14.128.1 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.