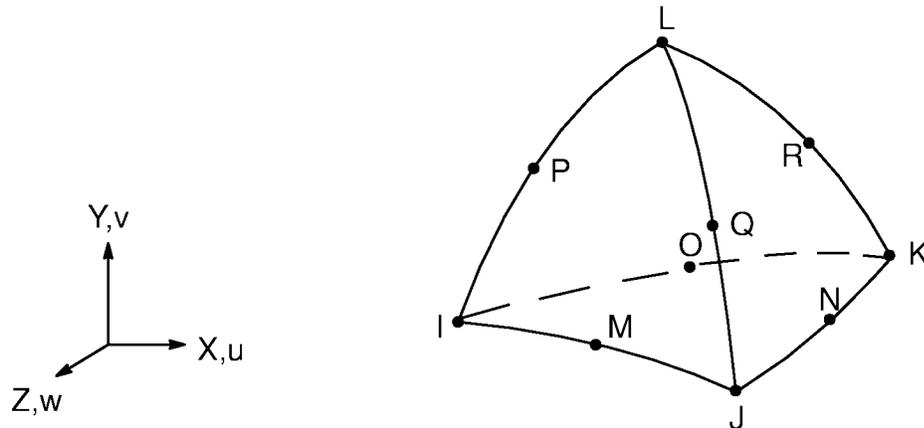


14.127 SOLID127 — Tet Electrostatic p-Element



| Matrix or Vector | Geometric Shape Functions | Solution Shape Functions | Integration Points |
|------------------------------------|---|--|--------------------|
| Coefficient Matrix | Equations (12.8.2-1), (12.8.2-2) and (12.8.2-3) | Polynomial variable in order from 2 to 8 | Variable |
| Charge Density Load Vector | Equations (12.8.2-1), (12.8.2-2) and (12.8.2-3) | Polynomial variable in order from 2 to 8 | Variable |
| Surface Charge Density Load Vector | Same as coefficient matrix specialized to face | Polynomial variable in order from 2 to 8 | Variable |

14.127.1 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.