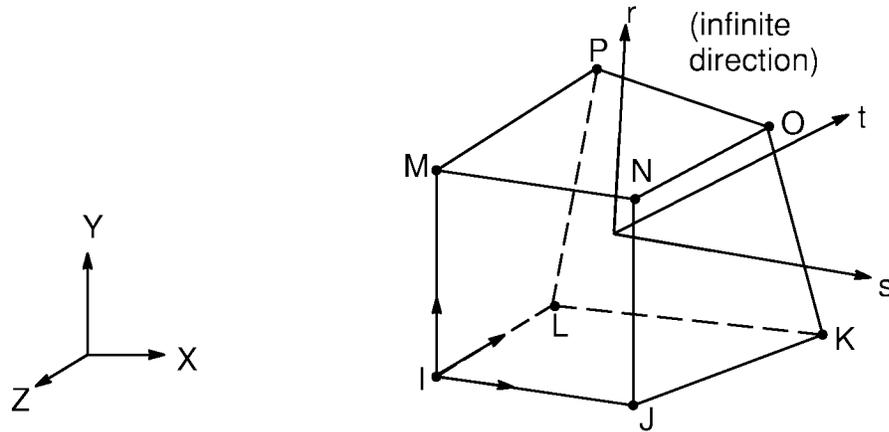


14.111 INFIN111 — 3-D Infinite Solid



Matrix or Vector	Mapping and Shape Functions	Integration Points
Magnetic or Electrical Scalar Potential Coefficient Matrix or Thermal Conductivity Matrix	Equations (12.8.22–20), (12.8.22–21), (12.8.22–22), (12.8.22–33), (12.8.22–34) and (12.8.22–35)	2 x 2 x 2
Specific Heat Matrix	Equations (12.8.22–20), (12.8.22–33), (12.8.22–34) and (12.8.22–35)	2 x 2 x 2
Magnetic Vector Potential Coefficient Matrix	Equations (12.8.22–7), (12.8.22–8), (12.8.22–9), (12.8.22–33), (12.8.22–34) and (12.8.22–35)	2 x 2 x 2

14.111.1 Other Applicable Sections

See Section 14.110 for the theoretical development of infinite solid elements. The derivation presented in Section 14.110 for 2-D can be extended to 3-D in a straightforward manner.