14.29 FLUID29 — 2–D Acoustic Fluid
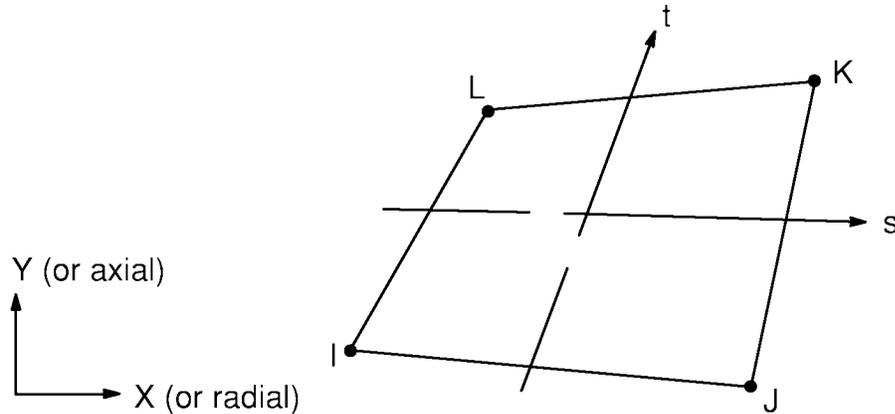
Matrix or Vector	Shape Functions	Integration Points
Fluid Stiffness Matrix	Equation (12.6.5–19)	2 x 2
Coupling Stiffness Matrix (fluid–structure interface)	Equation (12.6.5–1), (12.6.5–2), and (12.6.5–19) specialized to the interface	2
Fluid Mass Matrix	Equation (12.6.5–19)	2 x 2
Coupling Mass Matrix (fluid–structure interface)	Same as coupling stiffness matrix	2
Fluid Damping Matrix (fluid at fluid–structure interface)	Same as coupling stiffness matrix	2

14.29.1   Other Applicable Sections

Chapter 8 describes the derivation of acoustic element matrices and load vectors.