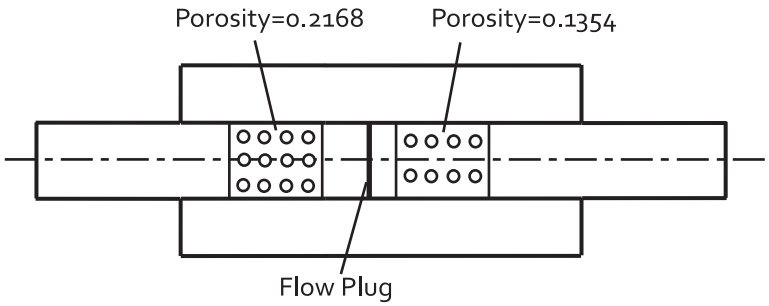
Muffler Transmission Loss Calculations



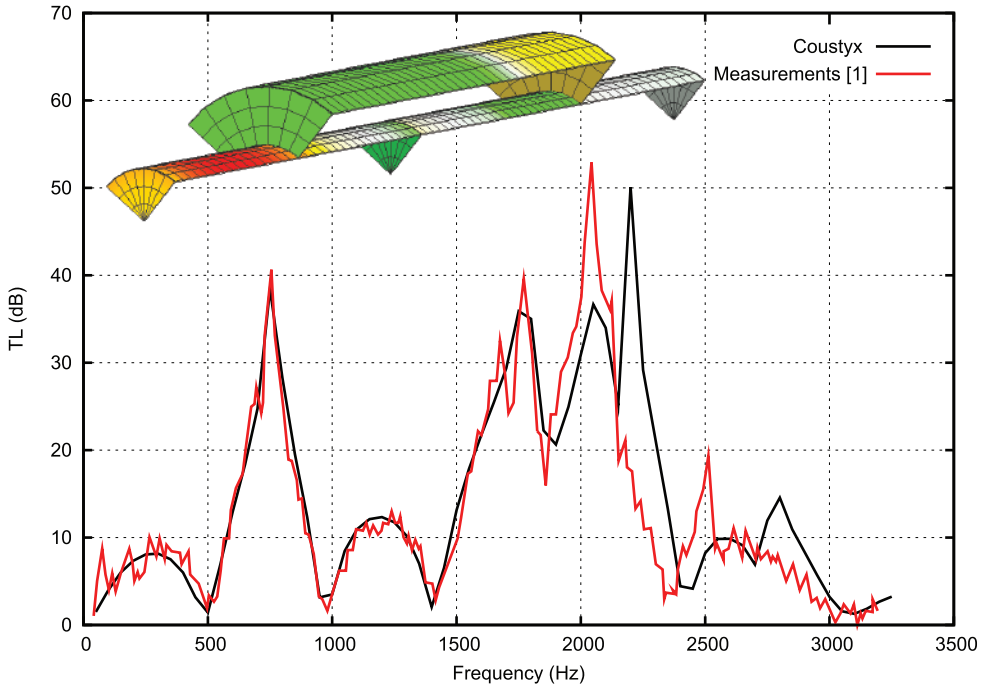
Number of Elements	840
Number of Nodes	939
Number of Junctions	24

Model Description

Transmission loss for a perforated muffler with a flow plug is evaluated using Coustyx. Three-point method is employed. The vibration at the inlet, anechoic termination at the outlet, and perforated tubes are modeled as boundary conditions. Junction constraints are automatically created.

Results

Coustyx transmission loss predictions match well with experimental measurements published by Wu[1], over a wide frequency range.



[1] T.W. Wu, Boundary element acoustics - Fundamentals and computer codes, WIT press, Southampton, Boston, 2000, pp.79-80