Publications Wolfgang Polifke

May 5, 2020

Reviewed journal articles or conference proceedings


70. R. Blumenthal, A. Tangirala, R. Sujith, and W. Polifke. A systems perspective on non-
normality in low-order thermoacoustic models: Full norms, semi-norms and transient

71. A. Witte and W. Polifke. Dynamics of Unsteady Heat Transfer in Pulsating Flow Across a

72. P. Tudisco, R. Ranjan, S. Menon, S. Jaensch, and W. Polifke. Application of the time-
domain impedance boundary condition to large-eddy simulation of combustion insta-
bility in a shear-coaxial, high pressure combustor. *Flow, Turbulence and Combustion*,

73. C. F. Silva, L. Magri, T. Runte, and W. Polifke. Uncertainty quantification of growth rates
of thermoacoustic instability by an adjoint Helmholtz solver. *J. Eng. Gas Turbines and

74. D. Rouwenhorst, J. Hermann, and W. Polifke. Online Monitoring of Thermoacoustic Eigen-
modes in Annular Combustion Systems Based on a State-Space Model. *J Eng Gas Turb
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76. S. Jaensch, M. Merk, E. Gopalakrishnan, S. Bomberg, T. Emmert, R. Sujith, and W. Po-

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79. J. Achury and W. Polifke. Modulation of Spray Droplet Number Density and Size Distribu-

80. R. A. J. Müller, J. Hermann, and W. Polifke. Direct drive valve model for use as an acoustic

81. J. Tournadre, K. Förner, W. Polifke, P. Martínez-Lera, and W. Desmet. Determination of
Acoustic Impedance for Helmholtz Resonators Through Incompressible Unsteady Flow

82. K. Förner, J. Tournadre, P. Martínez-Lera, and W. Polifke. Scattering to Higher Harmonics

83. T. Emmert, M. Meindl, S. Jaensch, and W. Polifke. Linear State Space Interconnect Mod-

84. Lee, J. S., Violato, D, and Polifke, W. Acoustical characteristics of two-phase horizontal
intermittent flow through an orifice. *Acta Acustica united with Acustica*, 102(5):804–812,
2016.

85. U. Karban, C. Schram, C. Sovardi, and W. Polifke. Tailored Green’s functions for the
prediction of the noise generated by single and tandem orifices in a circular duct. *Acta


Dissertation


Books and monographs


**Invited talks or journal contributions**


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**Conference contributions**


446. W. Polifke and C. Wall. Partially reflecting and non-reflecting boundary conditions for simulation of compressible viscous flow. *11th Int. Congress on Sound and Vibration (ICSV11)*, pages 813–820, St. Petersburg, Russia, July 5-8 2004. IIAV.


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