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Qualifications

Employment

Honorary Senior Lecturer
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Research output

Vibration-Based Leak Detection Approach in a 90-Degree Pipe Elbow: A Computational Study

Abuhatira, A., Salim, S. M. & Vorstius, J., Apr 2022, *Proceedings of the 2022 Annual Conference of the UK Association for Computational Mechanics (UKACM)*. Nottingham University Press, 4 p.

Numerical Simulation of Turbulent Pipe Flow With 90-Degree Elbow Using Wall Y+ Approach

Abuhatira, A. A., Salim, S. M. & Vorstius, J. B., 25 Jan 2022, (E-pub ahead of print) *ASME 2021 International Mechanical Engineering Congress & Exposition conference proceedings*. American Society of Mechanical Engineers (ASME), p. 1-7 7 p. V010T10A048. (Fluids Engineering: Symposium on CFD Applications for Optimization and Controls; vol. 10).

Computational Study of Vibration-Based Leak Detection Approach in a 90-Degree Pipe Elbow

Abuhatira, A., Salim, S. M. & Vorstius, J., Sep 2021, *UK Fluids Conference*. University of Southampton: The Interdisciplinary Teaching and Learning Group, University of Southampton, p. 122 1 p. 07B-5

Effects of curvature radius ratio of 90-degree pipe elbow on FIV signal

Abuhatira, A. A., Salim, S. M., Hussein, H. A. & Vorstius, J. B., 28 May 2020. 1 p.

Numerical simulation of turbulent pipe flow with elbow bend: comparison between RANS and LES

Abuhatira, A., Salim, S. M. & Vorstius, J. B., 30 May 2019, *32nd Scottish Fluid Mechanics Meeting (SFMM): Book of Abstracts*. Dundee: University of Dundee, p. 25-25 1 p.

Analysis of thermal mixing in T-junctions using fluid-structure interaction

Gow, A. R. & Salim, S. M., 14 Mar 2018, *Proceedings of the International MultiConference of Engineers and Computer Scientists 2018, IMECS 2018*. Castillo, O., Feng, D. D., Korsunsky, A. M., Douglas, C. & Ao, S. I. (eds.). Newswood Limited, (Lecture Notes in Engineering and Computer Science; vol. 2).

Wall y^+ strategy for modelling rotating annular flow using CFD

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Numerical simulation of dispersion in an urban street canyon: Comparison between steady and fluctuating boundary conditions

Kwa, S. M. & Salim, S. M., 2015, In: *Engineering Letters*. 23, 1, p. 55-64 10 p.

A review on the flow structure and pollutant dispersion in urban street canyons for urban planning strategies

Yazid, A. W. M., Sidik, N. A. C., Salim, S. M. & Saqr, K. M., 25 Apr 2014, In: *Simulation*. 90, 8, p. 892-916 25 p.

Fluctuating inlet flow conditions for use in urban air quality CFD studies

Kwa, S. M. & Salim, S. M., 2014, *Lecture Notes in Engineering and Computer Science*. Newswood Limited, Vol. 2. p. 1519-1524 6 p.

Numerical analysis of fluid-structure interaction between wind flow and trees

Gan, C. J. & Salim, S. M., 2014, *Lecture Notes in Engineering and Computer Science*. Newswood Limited, Vol. 2. p. 1218-1223 6 p.

Numerical simulation of wind flow structures and pollutant dispersion within street canyon under thermally unstable atmospheric conditions

Yazid, A. W. M., Che Sidik, N. A. & Mohamed Salim, S., 2014, *Applied Mechanics and Materials*. Trans Tech Publications LTD, Vol. 554. p. 655-659 5 p. (Applied Mechanics and Materials; vol. 554).

Numerical prediction of air flow within street canyons based on different two-equation k-ε models

Yazid, A. W. M., Sidik, N. A. C., Salim, S. M. & Yusoff, N. H. M., 2013, *IOP Conference Series: Materials Science and Engineering*. 1 ed. Vol. 50. 012012

Performance of RANS, URANS and LES in the prediction of airflow and pollutant dispersion

Salim, S. M. & Ong, K. C., 2013, *Lecture Notes in Electrical Engineering*. Vol. 170 LNEE. p. 263-274 12 p. (Lecture Notes in Electrical Engineering; vol. 170 LNEE).

Numerical simulation of dispersion in urban street canyons with avenue-like tree plantings: Comparison between RANS and LES

Salim, S. M., Cheah, S. C. & Chan, A., Sep 2011, In: *Building and Environment*. 46, 9, p. 1735-1746 12 p.

Analysis of local scale tree-atmosphere interaction on pollutant concentration in idealized street canyons and application to a real urban junction

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Salim, S. M., Buccolieri, R., Chan, A. & Di Sabatino, S., Feb 2011, In: *Journal of Wind Engineering and Industrial Aerodynamics*. 99, 2-3, p. 103-113 11 p.

Large Eddy Simulation of the aerodynamic effects of trees on pollutant concentrations in street canyons

Salim, S. M., Buccolieri, R., Chan, A., Di Sabatino, S. & Cheah, S. C., 2011, *Procedia Environmental Sciences*. Vol. 4. p. 17-24 8 p.

Wall y^+ approach for dealing with turbulent flows over a wall mounted cube

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Al-Sammarraee, M., Chan, A., Salim, S. M. & Mahabaleswar, U. S., 15 Oct 2009, In: *Chemical Engineering Journal*. 152, 2-3, p. 307-314 8 p.