

Analyzing the emptying process of a large-scale pipeline with three-dimensional CFD simulations

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Discussion of "Rigid Water Column Model for Simulating the Emptying Process in a Pipeline Using Pressurized Air" by Oscar E. Coronado-Hernández, Vicente S. Fuertes-Miquel, Pedro L. Iglesias-Rey, and Francisco J. Martínez-Solano

Hou, Qingzhi; Li, Shunda; Tijsseling, Arris S.; **Laanearu, Janek** Journal of hydraulic engineering 2020 / art. 07020001, 6 p. : ill [https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0001682](https://doi.org/10.1061/(ASCE)HY.1943-7900.0001682) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Emptying of large-scale pipeline by pressurized air

Laanearu, Janek; Annus, Ivar; Koppel, Tiit; Bergant, Anton; Vučković, Sašo; Hou, Qingzhi; Tijsseling, Arris S.; Anderson, Alexander; Westende, Jos M.C.van't Journal of hydraulic engineering 2012 / p. 1090-1100 : ill https://www.win.tue.nl/~atijssel/pdf_files/Laanearu-et-al_2012.pdf

Experimental and analytical modelling study of water-front dynamics of two-phase unsteady flows in a large-scale pressurized pipeline

Laanearu, Janek; Hou, Qingzhi; Tijsseling, Arris S. Papers presented at 12th International Conference on Pressure Surges : Dublin, Ireland : 18-20 November 2015 2015 / p. 625-637 : ill

Experimental and analytical study of the air-water interface kinematics during filling and emptying of a horizontal pipeline

Laanearu, Janek; Hou, Qingzhi; Tijsseling, Arris S. 12th International Conference on Pressure Surges : Dublin, Ireland, 18-20 November 2015 2015 / p. 625-637 : ill

Experimental data on filling and emptying of a large-scale pipeline

Chen, Xifeng; Hou, Qingzhi; **Laanearu, Janek**; Tijsseling, Arris S. Scientific data 2024 / art. 603 <https://doi.org/10.1038/s41597-024-03441-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental investigation on rapid filling of a large-scale pipeline

Hou, Qingzhi; Tijsseling, Arris S.; **Laanearu, Janek; Annus, Ivar; Koppel, Tiit** 2013

Experimental investigation on rapid filling of a large-scale pipeline

Hou, Qingzhi; Tijsseling, Arris S.; **Laanearu, Janek; Annus, Ivar; Koppel, Tiit** Journal of hydraulic engineering 2014 / art. 04014053, p. 1-14 : ill [https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0000914](https://doi.org/10.1061/(ASCE)HY.1943-7900.0000914) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental study of filling and emptying of a large-scale pipeline

Hou, Qingzhi; Tijsseling, Arris S.; **Laanearu, Janek; Annus, Ivar; Koppel, Tiit**; Bergant, Anton; Vučković, S.; Gale, Janez; Anderson, A.; Westende, Jos M.C.van't; Pandula, Zoltan; Ruprecht, A. 2012 https://www.researchgate.net/publication/254810149_Experimental_study_of_filling_and_emptying_of_a_large-scale_pipeline

Improved one-dimensional models for rapid emptying and filling of pipelines

Tijsseling, Arris S.; Hou, Qingzhi; Bozkus, Zafer; **Laanearu, Janek** Journal of pressure vessel technology 2016 / p. 031301-1 - 031301-11 : ill <https://doi.org/10.1115/1.4031508> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Three-dimensional CFD analysis of liquid slug acceleration and impact in a voided pipeline with end orifice

He, Junling; Hou, Qingzhi; Lian, Jijian; Tijsseling, Arris S.; Bozkus, Zafer; **Laanearu, Janek**; Lin, Lei Engineering Applications of Computational Fluid Mechanics 2022 / p. 1444-1463 <https://doi.org/10.1080/19942060.2022.2095440> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Unsteady skin friction experimentation in a large diameter pipe

Vardy, Alan; Bergant, Anton; He, Shuisheng; Ariyaratne, Chanchala; Koppel, Tiit; Annus, Ivar; **Tijsseling, Arris S.**; Hou, Qingzhi Proceedings of the 3rd IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems : Brno, Czech Republic, October 14-16, 2009. Part II 2009 / p. 593-602 : ill https://www.researchgate.net/publication/228984476_Unsteady_skin_friction_experimentation_in_a_large_diameter_pipe

Water hammer and column separation due to accidental simultaneous closure of control valves in a large scale two-phase flow experimental test rig

Bergant, Anton; Westende, Jos M.C.van't; **Koppel, Tiit**; Gale, Janez; Hou, Qingzhi; Pandula, Zoltan; Tijsseling, Arris S. Proceedings of the ASME 2010 Pressure Vessels & Piping Division/K-PVP Conference : PVP2010 : July 18-22, 2010, Bellevue, Washington, USA 2010 / [10] p. : ill https://www.researchgate.net/publication/280624441_Water_hammer_and_column_separation_due_to_accidental_simultaneous_closure_of_control_valves_in_a_large-scale_two-phase_flow_experimental_test_rig

Water hammer and column separation due to accidental simultaneous closure of control valves in a large scale two-phase flow experimental test rig

Bergant, Anton; Westende, Jos M.C.van't; **Koppel, Tiit**; Gale, Janez; Hou, Qingzhi; Pandula, Zoltan; Tijsseling, Arris S. 2010

https://www.researchgate.net/publication/280624441_Water_hammer_and_column_separation_due_to_accidental_simultaneous_closure_of_control_valves_in_a_large-scale_two-phase_flow_experimental_test_rig

Water-column mass losses during the emptying of a large-scale pipeline by pressurized air

Laanearu, Janek; Hou, Qingzhi; **Annus, Ivar**; Tijsseling, Arris S. Proceedings of the Estonian Academy of Sciences 2015 / p. 8-16 : ill https://artiklid.elnet.ee/record=b2717477*est <https://doi.org/10.3176/proc.2015.1.02> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#) [Article at WOS](#)