

Aasta e-kursuse tiitli pävis TalTechi veetorustike modelleerimise kursust

Mente et Manu 2021 / lk. 10 : fot https://www.ester.ee/record=b1242496*est

Advantages of low-cost LiDAR sensors in surveying underground utility networks

Jerjomina, Angelina; Varbla, Sander Tunnelling and underground space technology 2024 / art. 106325
<https://doi.org/10.1016/j.tust.2024.106325>

Air pocket dynamics under bridging of stratified flow during rapid filling of a horizontal pipe

Kaur, Katrin; Laanearu, Janek; Annus, Ivar Journal of hydraulic engineering 2023 / art. 04022030, 11 p. : ill
[https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0002021](https://doi.org/10.1061/(ASCE)HY.1943-7900.0002021) Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Chen, Xifeng; Hou, Qingzhi; Tijsseling, Arris S.; Laanearu, Janek; Khu, Soon Thiam Journal of hydraulic engineering 2025 / art. 04025036 <https://doi.org/10.1061/JHEND8.HYENG-14153>

Application of Mindlin Theory to Describe the Scattering of Guided Waves From Notches in a Plate

Rasheed, Usman; Lints, Martin; Ratassepp, Madis ASME 2022 49th Annual Review of Progress in Quantitative Nondestructive Evaluation (QNDE2022) 2022 <https://event.asme.org/Events/media/library/resources/qnde/QNDE-2022-Final-Program.pdf> <https://qnde.secure-platform.com/a/solicitations/178/sessiongallery/11537/application/98050>

Basics of optimal design of district heating pipelines diameters and design examples of Estonian old non-optimised district heating networks

Hlebnikov, Aleksandr; Siirde, Andres; Paist, Aadu 4th International Symposium Topical Problems of Education in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 15-20, 2007 2007 / p. 149-153 : ill

Behälter, Maste, Schornsteine, Rohrleitungen : mit 611 Textabbildungen

1934 https://www.ester.ee/record=b2741162*est

Converting Tallinn's historic centre's (Old Town) heating system to a district heating system

Volkova, Anna; Krupenski, Igor; Kovtunova, Natalja; Hlebnikov, Aleksandr; Mašatin, Vladislav; Ledvanov, Aleksandr Energy 2023 / art. 127429 <https://doi.org/10.1016/j.energy.2023.127429> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Curvature effects on wave propagation in an infinite pipe

Ratassepp, Madis; Klauson, Aleksander Ultragarsas = Ultrasound 2006 / 2(59), Proceedings of the International Conference "Non-Destructive Testing and Diagnostics - 2006" : 26-27 May 2006, Vilnius, p. 19-25 : ill https://www.ndt.net/article/ultragarsas/59-2006-vol.2_04-m.ratassepp.pdf

Determination of the corresponding roughness height in a WDS model containing old rough pipes

Annus, Ivar; Vassiljev, Anatoli; Kändler, Nils; Kaur, Katrin Journal of water supply : research and technology - AQUA 2020 / p. 201-209 <https://doi.org/10.2166/aqua.2019.080>

Developing guided wave tomography for a pipe bend = Ultrahelitomograafia toru põlvede kontrollimiseks

Rasgado Moreno, Carlos Omar 2025 https://www.ester.ee/record=b5736911*est <https://digikogu.taltech.ee/et/Item/aac8515a-2964-40c0-9048-983c52f48f1d> <https://doi.org/10.23658/taltech.18/2025>

Dynamic processes of air-water flows in urban water systems = Õhu ja vee koosvoolumise dünaamilised protsessid linna veesüsteemides

Kaur, Katrin 2022 <https://doi.org/10.23658/taltech.68/2022> <https://digikogu.taltech.ee/et/Item/0a655a67-74aa-457e-8640-e7b3ab212695>
https://www.ester.ee/record=b5527832*est

Eesti teadlased muudavad veetorude rekonstrueerimine efektiivsemaks

ehitusuudised.ee 2023 [Eesti teadlased muudavad veetorude rekonstrueerimine efektiivsemaks](https://www.ester.ee/record=b5527832*est)

Erinevate koormustingimustega maa-aluste torustike ehituslik projekteerimine. Osa 1, Üldnõuded [Võrguteavik] = Structural design of buried pipelines under various condition of loading. Part 1, General requirements

2020 https://www.ester.ee/record=b5373751*est

Evaluation of punch wear resistance during industrial test

Peetsalu, Priidu; Saarna, Mart; Adoberg, Eron; Kulper, Eha; Lind, Liina; Kulu, Priit Acta metallurgica Slovaca conference 2010 / 1, p. 105-110 : ill

Experimental challenges of guided wave tomography based on full waveform inversion for a pipe bend

Rasgado Moreno, Carlos Omar; Xu, Panpan; Ratassepp, Madis Guided Ultrasonic Waves: Emerging Methods (GUWEM):

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 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

Factors affecting the improvement of district heating. Case studies of Estonia and Serbia

Rušeljuk, Pavel; **Volkova, Anna**; Lukic, Nebojša; **Lepiksaar, Kertu**; Nikolic, Novak; Nešovic, Aleksandar; **Siirde, Andres**
Environmental and Climate Technologies 2021 / p. 521–533 <https://doi.org/10.2478/rtuct-2020-0121> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Flow dynamics in a pipe containing uneven roughness elements

Kaur, Katrin; **Vassiljev, Anatoli**; **Annus, Ivar**; **Truu, Murel**; **Kändler, Nils** WDSA CCWI : proceedings book 2022 / 11 p. : ill
<https://drive.google.com/file/d/1sTPCrwLPmq-2C0-NX8siSfWp9WLd54A/view>

Gaasilekete avastamine maagaasitorustikest

Lahesalu, Simo Keskkonnatehnika 1999 / 5, lk. 26 https://artiklid.elnet.ee/record=b1002377*est

Geodesic equations for guided wave helical path separation for a pipe bend

Rasgado Moreno, Carlos Omar; **Ratassepp, Madis** Mechanical systems and signal processing 2023 / art. 110820
<https://doi.org/10.1016/j.ymssp.2023.110820> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hoone kanalisatsioon [Võrguteavik] = Draining system inside buildings / Eesti Standardimis- ja Akrediteerimiskeskus

2021 https://www.ester.ee/record=b5449156*est

Is water quality based stormwater management actually feasible? A SWMM-based study on the trade-offs of various stormwater management approaches

Suits, Kristjan; **Vassiljev, Anatoli**; **Annus, Ivar**; **Kändler, Nils** WDSA CCWI : proceedings book 2022 / 11 p. : ill
<https://drive.google.com/file/d/1sTPCrwLPmq-2C0-NX8siSfWp9WLd54A/view>

Ka klaasitäis sooja kraanivett võib teha tervisele kahju

Michelson, Tarmo Maaleht 2024 / lk. 8-9 https://dea.digar.ee/article/maaleht/2024/04/04/10.1_Ka_klaasitäis_sooja_kraanivett_võib_teha_tervisele_kahju

Kui mürgine on soe vesi?

Vill, Ants Kodu & Ehitus : TM 2024 / lk. 47-50 : fot https://www.ester.ee/record=b1740684*est

Lugeja küsib: miks kipuvad veetorud ära külmuma just ilma soojemaks minnes? [Võrguväljaanne]

Kalda, Jaan; **Mere, Arvo** novaator.err.ee 2021 ["Lugeja küsib: miks kipuvad veetorud ära külmuma just ilma soojemaks minnes?"](https://novaator.err.ee/2021/07/21/4.2_Lugeja_k%C3%BCsib:_miks_kipuvad_veetorud_%C3%A4ra_k%C3%Bclmuma_just_ilma_soojemaks_minnes?)

Läänemere-äärsetes riikides planeeritavad gaasitorustikud

Hamburg, Arvi Maagaas, vedelgaas, tööstusgaasid, gaasiseadmed Eestis : Eesti Gaasiliit 2008-2009 2009 / lk. 30-35 : portr., kaart

Magalate torustik vajab vahetust = Трубопроводы спальных районов требуют замены

Trell, Kristel Elamu 2021 / lk. 7-9 : fot; c. 29-31 : фот https://www.ester.ee/record=b1072137*est

A mathematical model for the determination of leakage in mains and water distribution networks

Koppel, Tiit; **Ainola, Leo**; **Puust, Raido** Proceedings of the Estonian Academy of Sciences. Engineering 2007 / 1, p. 3-16 : ill

Mis on «must jää» ja miks veetorud külmuvad just ilma soojenedes?

Munter, Rein postimees.ee 2023 [Mis on «must jää» ja miks veetorud külmuvad just ilma soojenedes?](https://postimees.ee/2023/07/21/4.2_Mis_on_%C3%A4must_j%C3%A4%C3%A4%20ja_miks_veetorud_k%C3%Bclmuvad_just_ilma_soojenedes?)

Modelling of sewer systems: a key to sustainable stormwater management

Vaabel, Joonas; **Kändler, Nils** "Environmental Impact and Water Management in a Catchment Area Perspective" : 24-26 September, 2001, Tallinn, Estonia : proceedings of the Symposium dedicated to the 40th Anniversary of Institute of Environmental Engineering at Tallinn Technical University 2001 / p. 250-257 : ill

Muudatuste juhtimine veesektoris pikaajalise strateegiaga

Annus, Ivar Sirp 2023 / lk. 8-9 <https://dea.digar.ee/article/sirp/2023/07/21/4.2> <https://www.sirp.ee/s1-artiklid/c21-teadus/muudatuste-juhtimine-veesektoris-pikaajalise-strateegiaga/>

Numerical analysis of air-water stratified flow in pipe with branch junctions

Laanearu, Janek Proceedings of the 40th IAHR World Congress (Vienna, 2023) 2023 / p. 3196 - 3204 https://doi.org/10.3850/978-90-833476-1-5_jahr40wc-p0353-cd

Numerical investigation of the impact of irregular pipe wall build-up on velocity in the water distribution system

Kaur, Katrin; Vassiljev, Anatoli; Annus, Ivar; Kändler, Nils; Roosimägi, Janet Journal of Water Supply: Research and Technology - AQUA 2020 / p. 647-655 <https://doi.org/10.2166/aqua.2020.035>

Optimising full waveform inversion with inhomogeneous transducers : parameters and considerations for successful implementation

Rasgado Moreno, Carlos Omar; Xu, Panpan; Rist, Marek; **Ratassepp, Madis** SSRN 2024 / 11 p <https://doi.org/10.2139/ssrn.4848530>

Performance optimization by Extended Peripheral Retiming

Fehlauer, Erhard; Rülke, Steffen; Franke, Günter BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 2 1994 / p. 425-430: ill https://www.ester.ee/record=b2150914*est

Quantitative imaging of elongated thickness defects in pipelines using ultrasonic guided wave tomography

Rasgado Moreno, Carlos Omar; Ratassepp, Madis ASME 2023 International Mechanical Engineering Congress and Exposition (IMECE2023) : proceedings. Vol. 1 2023 / art. 112228 <https://doi.org/10.1115/IMECE2023-112228>

Strength calculations of slurry disposal pipeline

Priss, Jelena; Klevtsov, Ivan The 22nd DAAAM World Symposium : 23-26th November 2011, Vienna, Austria 2011 / p. 1175-1176 https://www.daaam.info/Downloads/Pdfs/proceedings/proceedings_2011/572.pdf

Surveanumad : [konstrueerimise alused]

Elbing, Heti; **Üksti, Lembit** 1980 http://www.ester.ee/record=b1276416*est

Suurim seadusauk käsib meil merel hävitamist pealt vaadata

Alop, Anatoli postimees.ee 2025 <https://arvamus.postimees.ee/8170116/anatoli-alop-suurim-seadusauk-kasib-meil-merel-havitamist-pealt-vaadata>

TalTechi professorid kinnitavad: plasttorudest eraldub joogivette kahjulikke kemikaale

Niidu, Allan; Preis, Sergei; Annus, Ivar Ehitaja 2024 / lk. 21-23 : fot https://www.ester.ee/record=b1072123*est

Terviseamet soovitab sooja kraanivett mitte juua ega keeta = Health Board recommends not drinking or boiling warm tap water = Департамент здоровья рекомендует не пить и не кипятить горячую воду из-под крана

Voltri, Johannes err.ee 2024 [Terviseamet soovitab sooja kraanivett mitte juua ega keeta](https://www.ester.ee/record=b1072123*est) [Health Board recommends not drinking or boiling warm tap water](https://www.ester.ee/record=b1072123*est) [Департамент здоровья рекомендует не пить и не кипятить горячую воду из-под крана](https://www.ester.ee/record=b1072123*est)

The programs for strength calculation in pipelines

Priss, Jelena; Klevtsov, Ivan 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 2011 / p. 209-212 : ill

Thermal shocks and fatigue life of helically coiled once-through steam generator tubes in transition boiling zone

Klevtsov, Ivan Proceedings of the Estonian Academy of Sciences. Engineering 1997 / 2, p. 85-97: ill

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](https://www.ester.ee/record=b1072123*est) [Article at Scopus](https://www.ester.ee/record=b1072123*est) [Journal metrics at WOS](https://www.ester.ee/record=b1072123*est) [Article at WOS](https://www.ester.ee/record=b1072123*est)

Torustiku ja tee-ehituse projektid kasvatasid Tallinna Vee 2021. a müügitulu [Võrguväljaanne]

Liiviste, Priit pealinn.ee 2022 ["Torustiku ja tee-ehituse projektid kasvatasid Tallinna Vee 2021. a müügitulu"](https://www.ester.ee/record=b1072123*est)

Torustikuelemendid : nimirõhu määratlus : Eesti standard : EVS-ISO 7268:1997

1997 https://www.ester.ee/record=b1059662*est

TTÜ teadlased uurivad torustike kontrollimise tehnoloogiat : [lühiaudis]

Ehitaja 2010 / 5/6, lk. 34

Ummistunud soojaveetorustike happega pesemisest

Talimets, Ellen; Kallast, Vambola; Tamm, M. Kommunaalmajandus ja Teenindus : informatsiooniseeria 7 1979 / lk. 8-13 : ill https://www.ester.ee/record=b1146510*est

Use of relative roughness and changed diameters for old pipes when calibrating an operational water distribution system
Vassiljev, Anatoli; Martaud, M.; **Koppel, Tiit** Integrating Water Systems : proceedings of the Tenth International Conference on Computing and Control in the Water Industry 2009 : CCWI2009 : Sheffield, UK, 1-3 September 2009 2009 / p. 283-286

Valingvihmad uhuvad linnade rahakotist ära miljardeid eurosid. Ekspert: torude vahetamine probleemi ei lahenda [Võrguväljaanne]

digi.geenius.ee 2022 ["Valingvihmad uhuvad linnade rahakotist ära miljardeid eurosid. Ekspert: torude vahetamine probleemi ei lahenda"](#)

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](#)

Veelekete hindamine veetorustikes SCEM-UA meetodil

Puust, Raido Inseneeria 2008 / 2, lk. 54-55 https://artiklid.elnet.ee/record=b2041648*est

Vesi meie kodudes

Suurkask, Valdu Kodustudio 1996 / 5/6, lk. 43-45: ill

Viljandi linna veetöötlemiskompleksi veehaarde ja survetorustike keskkonnamõju hindamine (1 kd, 28 lk) : [2001. a. lõpetatud töö referaat]

Kiipli, Tarmo; Perens, Rein Eesti Geoloogiakeskuse aastaraamat 2001 2002 / lk. 43

Voolava keskkonna voo mõõtmine kinnistes torustikes : juhised Coriolos-arvestite valikuks, paigalduseks ja kasutamiseks (massivoo, tiheduse ja mahuvoo mõõtmine)

Odrats, Indrek; **Laaneots, Rein** 2007 https://www.ester.ee/record=b2336317*est

Väliskanaliseerimisvõrk [Võrguteavik] = Sewer system inside buildings

2021 https://www.ester.ee/record=b5449238*est

Ühetorusüsteem - nõukogude inseneride geniaalne abinõu : [Teet-Andrus Kõivu kommentaaridega]

Ilves, Lehte; **Kõiv, Teet-Andrus** Lääne Elu 2006 / 28. jaan., lk. 5

Измерение многовенных скоростей в трубопроводе при неустановившемся движении жидкости

Liiv, Uno Труды координационных совещаний по гидротехнике 1969 / с. ?

Меры борьбы с коррозией трубопроводов горячего водоснабжения жилых домов Таллина

Tearo, Eduard; **Siirde, Enno** 1968 / с. 24-26 https://www.ester.ee/record=b1447606*est

Определение остаточного ресурса паропроводов ТЭС Эстонии

Klevtsov, Ivan; **Tallermo, Harri** Теплоэнергетика 2002 / 4, с. 70-74 : ил

Старые дымовые трубы в опасности

Voltri, Väino; **Õiger, Karl** Строитель 2004 / 1, с. 30-32 : ил https://artiklid.elnet.ee/record=b1015147*est

Эксперт рассказал, что такое «черный лед» и почему лопаются замерзшие водопроводные трубы

Munter, Rein rus.postimees.ee 2023 [Эксперт рассказал, что такое «черный лед» и почему лопаются замерзшие водопроводные трубы](#)