

## **Akadeemik Alumäe 50 aastane**

**Ainola, Leo** Matemaatika ja kaasaeg : metoodilisi materjale matemaatikaüliõpilastele ja teistele matemaatika õppijatele 1965 / lk. 99-100 [https://www.ester.ee/record=b1181490\\*est](https://www.ester.ee/record=b1181490*est)

## **Alternative equations of magnetophotoelasticity and approximate solution of the inverse problem**

**Ainola, Leo**; Aben, Hillar Journal of the Optical Society of America A, Optics image science and vision 2002 / 9, p. 1886-1893

## **An inverse approach for leakage identification in water distribution systems**

**Koppel, Tiit; Puust, Raido; Ainola, Leo** XXIII Nordic Hydrological Conference ["Fresh Water Resources Management"] : Tallinn, Estonia, 8-12 August 2004 : selected articles. Vol. I 2004 / p. 342-349 : ill [https://artiklid.elnet.ee/record=b2343456\\*est](https://artiklid.elnet.ee/record=b2343456*est)

## **An investigation of turbulence generation and wall shear stress spectral analysis during unsteady flow in tubes**

**Ainola, Leo; Koppel, Tiit; Liiv, Uno** XVIII IAHR Congress : Cagliari, Italia, 10 - 14 Sept. 1979 : 3, Proceedings, Subject B : Mass and heat exchange in hydraulic phenomena 1979 / p. 165-172

## **Application of integrated photoelasticity to the determination of viscous flow velocity in closed conduits**

**Ainola, Leo** Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 1998 / 1, p. 48-55

## **Application of the integrated photoelasticity to determination of residual stresses in glass**

Aben, Hillar; **Ainola, Leo; Anton, Johan** Advances of Methods of Experimental Mechanics 2003 / p. 24-39

## **Boundary layer with heat load in transitional accelerating pipe flow**

**Ainola, Leo; Ekholm, Ari; Koppel, Tiit; Lähdeniemi, Matti; Puust, Raido** Hydrodynamics V. Volume 1, Theory and applications : proceedings of the fifth International Conference on Hydrodynamics : Tainan, Oct. 31 - Nov. 2, 2002 2002 / p. 523-528 : ill

## **Capacity reliability of water distribution systems**

**Vaabel, Joonas; Koppel, Tiit; Ainola, Leo; Sarv, Laur** Journal of Hydroinformatics 2014 / p. 731-741

<https://doi.org/10.2166/hydro.2013.040> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Complete residual stress measurement in axisymmetric glass articles**

Aben, Hillar; **Ainola, Leo; Anton, Johan** Proceedings of the 18th International Congress on Glass, San Francisco, 1998. B6 1998 / p. 46-50

## **Complete residual stress measurement in axisymmetric glass articles**

Aben, Hillar; **Ainola, Leo; Anton, Johan** Experimental mechanics 1998 / p. 1343-1346

## **Complex approach to the water network model calibration and the leakage distribution**

**Ainola, Leo; Koppel, Tiit; Vassiljev, Anatoli** Hydraulic Engineering Software VIII : [Eighth International Conference on Hydraulic Engineering Software : HYDROSOFT 2000] 2000 / p. 91-100 : ill <https://www.witpress.com/Secure/elibrary/papers/HY00/HY00008FU.pdf>

## **Determination des contraintes dans les preforms optiques a saut d'indice**

Aben, Hillar; **Ainola, Leo; Anton, Johan**; Errapart, Andrei Colloque "Photomecanique 2001" 2001 / p. 71-78

## **Development of accelerating pipe flow starting from rest**

**Annus, Ivar; Koppel, Tiit; Sarv, Laur; Ainola, Leo** Journal of fluids engineering 2013 / p. 111204-1 - 111204-10 : ill

<https://doi.org/10.1115/1.4025256> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Discrete algorithm of integrated photoelasticity for axisymmetric problems**

**Anton, Johan**; Aben, Hillar; **Ainola, Leo** International Conference on Advanced Technology in Experimental Mechanics : The Second Asian Conference on Experimental Mechanics, Nagoya, 2003 2003 / [6] p

## **Discussion: Shuy, E.B. Approximate wall shear equation for unsteady laminar pipe flows, Journal of Hydraulic Research, Vol. 33, No. 4, 1995, p. 457-469**

**Ainola, Leo; Liiv, Uno** Journal of hydraulic research 1996 / 3, p. 430-432

## **Diurnal dynamic analysis of water distribution networks**

**Ainola, Leo; Koppel, Tiit; Kändler, Nils** Advances in Water Supply Management : proceedings of the International Conference on Computing and Control for the Water Industry, 15-17 September 2003, London, UK 2003 / p. 165-171 : ill

<https://www.taylorfrancis.com/chapters/edit/10.1201/NOE9058096081-19/diurnal-dynamic-analysis-water-distribution-networks-ainola-koppel-k%C3%A4ndler>

## **Diurnal dynamics effect on freezing of urban water system**

**Koppel, Tiit; Ainola, Leo** 1st UNESCO IHP VI Workshop : Integrated Urban Water Management in Cold Climate : NTNU, Trondheim, Norway, November 3-4, 2005 : book of abstracts 2005 / p. 79-80

### **Duality in optical theory of twisted birefringent media**

**Ainola, Leo;** Aben, Hillar Journal of the Optical Society of America A, Optics image science and vision 1999 / 10, p. 2545-2549  
<https://opg.optica.org/josaa/abstract.cfm?URI=josaa-16-10-2545>

### **Energetic optimization by rehabilitation of oversized water distribution networks**

**Ainola, Leo; Koppel, Tiit; Kändler, Nils** Pumps, electromechanical devices and systems applied to urban water management. Volume 1 2003 / p. 3-9

### **Energy-based analysis for rehabilitation of water distribution networks**

**Ainola, Leo; Koppel, Tiit; Vassiljev, Anatoli** Proceedings of the EWA/AGHTM Conference "Operation and Maintenance of Sewer and Water Pipes", Paris, 2003 2003 / p. 163-175

### **Experience of calibration of model of water supply system**

**Ainola, Leo; Koppel, Tiit; Kändler, Nils; Vassiljev, Anatoli** 5th International Congress ECWATECH-2002, Moscow : abstracts 2002 / p. 214-215

### **Experimental data processing system for unsteady flow studies**

**Ainola, Leo; Koppel, Tiit; Lamp, Jürgen; Liiv, Uno** XIX IAHR Congress, New Delhi, India, 2-7 February 1981 : proceedings = XIX Congrès de l'AIHR, New Delhi, Inde, 2-7 février 1981 ; Vol. 5: Subject D 1981 / p. 535-544

### **Generalized sum rule for thermal and residual stresses in axisymmetric glass articles**

Aben, Hillar; **Ainola, Leo** Proceedings of the 3rd International Congress on Industrial and Applied Mathematics, Hamburg, 1995 1996 / 5, p. 3-4

### **Half-fringe phase-stepping with separation of the principal stress directions**

Aben, Hillar; **Ainola, Leo; Anton, Johan** Proceedings of the Estonian Academy of Sciences. Engineering 1999 / 3, p. 198-211: ill  
[https://artiklid.elnet.ee/record=b1001721\\*est](https://artiklid.elnet.ee/record=b1001721*est)

### **Heat transfer by a pulsating flow in thermally developing region of a pipe**

**Ainola, Leo; Ekholm, Ari; Koppel, Tiit; Lähdeniemi, Matti** Progress in engineering heat transfer 1999 / p. 249-256

### **Heat transfer in the thermally developing region for pulsating tube flow**

**Ainola, Leo; Koppel, Tiit; Lähdeniemi, Matti** Proceedings of the Estonian Academy of Sciences. Engineering 1999 / 1, p. 41-52: ill

### **Heat transfer investigation in pipe by IR-thermography**

**Koppel, Tiit; Ainola, Leo; Ekholm, Ari; Lähdeniemi, Matti** Thermosense XXII : 25-27 April 2000, Orlando, Florida : proceedings 2000 / p. 267-275 : ill

### **Heat transfer investigation of pulsating and accelerated pipe flow by IR-thermography**

Lähdeniemi, Matti; **Ainola, Leo; Koppel, Tiit; Ekholm, Ari** Hydrodynamics IV : Theory and Applications : proceedings of the Fourth International Conference on Hydrodynamics : Yokohama, 7-9 September 2000. Vol. II 2000 / p. 913-918 : ill

### **Hybrid mechanics for axisymmetric thermoelasticity problems**

**Ainola, Leo;** Aben, Hillar Journal of thermal stresses 2000 / 7, p. 685-698

### **Hybrid stress analysis with integrated photoelasticity**

**Ainola, Leo;** Aben, Hillar IUTAM Symposium on Advanced Optical Methods and Applications in Solid Mechanics 2000 / p. 342-348

### **Hydraulic power analysis for determination of characteristics of a water distribution system [Electronic resource]**

**Vaabel, Joonas; Ainola, Leo; Koppel, Tiit** 8th Annual Water Distribution Systems Analysis Symposium : proceedings of WDSA 2006 : [Cincinnati, Ohio, USA], August 27-30, 2006 2006 / [9] p. : ill. [CD-ROM]

### **Hydraulic power analysis of flows in water distribution network**

**Koppel, Tiit; Ainola, Leo; Vassiljev, Anatoli** CCWI 2005 : proceedings of the Eighth International Conference on Computing and Control for the Water Industry : Exeter, UK. Volume 1 2005 / p. 317-322

### **Identification of transition to turbulence in a highly accelerated start-up pipe flow**

**Koppel, Tiit; Ainola, Leo** Transactions of the ASME. Journal of fluids engineering 2006 / July, p. 680-686 : ill  
<https://asmedigitalcollection.asme.org/fluidsengineering/article/128/4/680/466677/Identification-of-Transition-to-Turbulence-in-a>

### **Integraalne fotoelastsusmeetod klaastodete kvaliteedi kontrollimiseks**

Aben, Hillar; **Ainola, Leo; Anton, Johan; Errapart, Andrei** Teadusmõtte Eestis : tehnikateadused 2002 / lk. 9-13 : ill

**Integraalse fotoelastsusmeetodi teooria, mõõmistehnoloogia ja aparatuuri väljatöötamine ja rakendamine jääkpingete mõõtmiseks klaasitööstuses : kommentaar Eesti Vabariigi teaduse aastapreemia pälvunud tööde tsüklile**

**Aben, Hillar; Ainola, Leo; Anton, Johan; Errapart, Andrei** Tallinna Tehnikaülikooli aastaraamat 2009 2010 / lk. 183-187 : ill  
[https://www.ester.ee/record=b1212786\\*est](https://www.ester.ee/record=b1212786*est)

**Integrated photoelasticity as a tool quality control in glass industry**

Aben, Hillar; **Ainola, Leo; Anton, Johan** VDI (Verein Deutscher Ingenieure) Berichte 1999 / p. 233-238

**Integrated photoelasticity for nondestructive residual stress measurement in glass**

**Ainola, Leo;** Aben, Hillar; **Anton, Johan** Optics and lasers in engineering 2000 / 1, p. 49-64

**Integrated photoelasticity for quality control in glass industry**

Aben, Hillar; **Ainola, Leo; Anton, Johan** 17th Danubia-Adria Symposium on Experimental Mechanics in Solid Mechanics : Prague, October 11-14, 2000 2000 / [4] p

**Interference blots and fringe dislocations in optics of twisted birefringent media**

Aben, Hillar; **Ainola, Leo** Journal of the Optical Society of America A, Optics image science and vision 1998 / 9, p. 2404-2411

**Interference blots in integrated fringe patterns**

**Ainola, Leo;** Aben, Hillar IUTAM Symposium on Advanced Optical Methods and Applications in Solid Mechanics 2000 / p. 33-41  
[https://link.springer.com/chapter/10.1007/0-306-46948-0\\_4](https://link.springer.com/chapter/10.1007/0-306-46948-0_4)

**Interference blots in integrated fringe patterns**

Aben, Hillar; **Ainola, Leo** Advanced optical method and applications in solid mechanics. Vol. 1. Mo-P2 1998 / p. 1-8

**Inverse problem for vibrating quasi-homogeneous string**

**Ainola, Leo** Tallinna Tehnikaülikooli Toimetised 1992 / lk. 23-32

**IR technology and image processing applied to flow investigation**

Lähdeniemi, Matti; Ekholm, Ari; **Koppel, Tiit; Ainola, Leo** Machine vision news 2002 / p. 12

**Isochromatic fringes in photoelasticity**

**Ainola, Leo;** Aben, Hillar Journal of the Optical Society of America A, Optics image science and vision 2000 / 4, p. 750-755

**Isospectral vibration of quasi-uniform rods and strings**

**Ainola, Leo** Proceedings of the Estonian Academy of Sciences. Engineering 1996 / 2, p. 224-232

**2009. a teaduspreemia innovaatilise tooteni viinud väljapaistva teadus- ja arendustöö "Integraalse fotoelastsusmeetodi teooria, mõõtmistehnoloogia ja aparatuuri väljatöötamine ja rakendamine jääkpingete mõõtmisel klaasitööstuses" eest : [Hillar Aben (kollektiivi juht), Leo Ainola, Andrei Errapart, Johan Anton]**

Aben, Hillar; Ainola, Leo; Errapart, Andrei; Anton, Johan Teadusmõtte Kübermeetika Instituudis 2010 / lk. 131-147 : ill

**Koolimatemaatika kõrgkooli tarvis**

**Ainola, Leo; Ruustal, Endel** Nõukogude Õpetaja : Eesti NSV Riikliku Hariduskomitee ning Haridus- ja Teadustöötajate Ametiühingu Eesti Vabariikliku Komitee häälekandja 1987 / lk. 3 [https://www.ester.ee/record=b1237176\\*est](https://www.ester.ee/record=b1237176*est) <https://dea.digar.ee/cgi-bin/dea?a=c&cl=CL1&sp=noukogudeopetaja>

**Kõrgema matemaatika teatmik. I, Põhimõisted. Lineaaralgebra. Analüütiline geomeetria**

1978 [https://www.ester.ee/record=b1308433\\*est](https://www.ester.ee/record=b1308433*est)

**Kõrgema matemaatika teatmik. II, Diferentsiaal- ja integraalarvutus**

1978 [https://www.ester.ee/record=b1279794\\*est](https://www.ester.ee/record=b1279794*est)

**Kõrgema matemaatika teatmik. III, Kõrgema matemaatika eripeatükke**

1978 [https://www.ester.ee/record=b1286244\\*est](https://www.ester.ee/record=b1286244*est)

**Matemaatika tehnikahariduses eile, täna ja homme**

**Ainola, Leo** Koolimatemaatika 2001 / lk. 76-77

**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

**Mathematical modelling of unsteady flow in long pipes**

**Ainola, Leo** Eesti Teaduste Akadeemia Toimetised. Füüsika. Matemaatika 1990 / 3, lk. 282-289

**Modelling of unsteady hydrodynamic processes in pipes**

**Ainola, Leo; Liiv, Uno** Symposium on Scale Effects in Modelling Hydraulic Structures, September 3-6, 1984 1984 / 35-1-35-4

**A new relationship for the experimental-analytical solution of the axisymmetric thermoelasticity problem : short communication**

**Ainola, Leo;** Aben, Hillar ZAMM : Zeitschrift für Angewante Mathematik und Mechanik 2004 / 3, p. 211-215  
<https://www.osti.gov/etdeweb/biblio/20629002>

**On energy efficiency of water distribution system**

**Vaabel, Joonas; Koppel, Tiit; Ainola, Leo** Water Management Challenges in Global Change : proceedings of the 9th Computing and Control for the Water Industry (CCWI2007) and Sustainable Urban Water Management (SUWM2007) Conferences : Leicester, UK, 3-5 September, 2007 2007 / p. 169-172

**On hybrid thermomechanics for multilayered cylinders**

**Ainola, Leo;** Aben, Hillar Journal of thermal stresses 2004 / p. 195-207 : ill  
<https://www.tandfonline.com/doi/full/10.1080/01495730490264303>

**On hydraulic power capacity of water supply system**

**Koppel, Tiit; Ainola, Leo; Vaabel, Joonas** 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. 551-555

**On real and imaginary algorithms of optical tensor field tomography**

**Aben, Hillar; Errapart, Andrei; Ainola, Leo** Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2006 / 2, p. 112-127

**On the alternative equations of water hammer**

**Koppel, Tiit; Ainola, Leo** Proceedings of 32nd Congress of IAHR : Venice, Italy, July 1-6, 2007 2007 / [9] p

**On the optical theory of photoelastic tomography**

**Ainola, Leo;** Aben, Hillar Journal of the Optical Society of America A, Optics image science and vision 2004 / 6, p. 1093-1101

**Optical tomography of the laser's Gaussian electric field**

Aben, Hillar; **Ainola, Leo** Optics & laser technology 2001 / p. 29-30 : ill

**Photoelastic residual stress measurement in glass articles as a problem of hybrid mechanics**

Aben, Hillar; **Ainola, Leo;** Puro, A. Proceedings of the 17th Symposium on Experimental Mechanics of Solids, Jachranka, Poland, 1996 1996 / p. 1-10

**Photoelastic tomography for residual stress measurement in glass**

Aben, Hillar; Errapart, Andrei; **Ainola, Leo; Anton, Johan** Optical metrology in production engineering 2004 / p. 1-11

**Photoelastic tomography in linear approximation**

Aben, Hillar; **Ainola, Leo; Anton, Johan;** Errapart, Andrei International Conference on Advanced Technology in Experimental Mechanics : The Second Asian Conference on Experimental Mechanics, Nagoya, 2003 2003 / [6] p. : ill  
[https://www.researchgate.net/publication/317676395\\_OS01W0036\\_Photoelastic\\_tomography\\_in\\_linear\\_approximation](https://www.researchgate.net/publication/317676395_OS01W0036_Photoelastic_tomography_in_linear_approximation)

**Photoelastic tomography in linear approximation [Electronic resource]**

Errapart, Andrei; **Aben, Hillar; Ainola, Leo** Proceedings of the 2004 SEM X International Congress & Exposition on Experimental and Applied Mechanics 2004 / [8] p. [CD-ROM]

**Principal formulas of integrated photoelasticity in terms of characteristic parameters**

**Ainola, Leo; Aben, Hillar** Journal of Optical Society of America 2005 / 6, p. 1181-1186

**Principle of locality and its application to water network model calibration**

**Ainola, Leo; Koppel, Tiit; Kändler, Nils; Vassiljev, Anatoli** Water software systems : theory and applications. Vol. 1 2001 / p. 111-120

**Rehabilitation aspects of oversized water distribution networks**

**Ainola, Leo; Koppel, Tiit; Kändler, Nils** Hydraulic information management 2002 / p. 351-360

**Residual stress measurement in glass articles of complicated shape using integrated photoelasticity**

Aben, Hillar; **Ainola, Leo; Anton, Johan** Proceedings of the International Conference on Material Engineering, Gallipoli-Lecce, 1996. 1 1996 / p. 291-299

**Sum rules for photoelastic residual stress measurement in axisymmetric glass articles**

Aben, Hillar; **Ainola, Leo; Anton, Johan** Proceedings of the International Conference an Advanced Technology in Experimental Mechanics'99 : July 21 through 24, 1999, Japan. Vol. 2 1999 / p. 629-634

### **Survetorude hüdrodünaamika probleeme**

**Koppel, Tiit; Ainola, Leo; Vassiljev, Anatoli** Teadusmõte Eestis. 4, Tehnikateadused. 2 2007 / lk. 33-40 : ill

### **Teaduspreemia innovaatilise tooteni viinud väljapaistva teadus- ja arendustöö "Integraalse fotoelastsusmeetodi teooria, mõõtmistehnoloogia ja aparatuuri väljatöötamine ja rakendamine jääkpingete mõõtmisel klaasitööstuses" eest : Hillar Aben (kollektiivi juht), Leo Ainola, Andrei Errapart, Johan Anton**

**Aben, Hillar; Ainola, Leo; Errapart, Andrei; Anton, Johan** Eesti Vabariigi teaduspreemiad 2009 / lk. 40-57 : ill., fot

### **The inverse Sturm-Liouville problem for quasi-homogeneous potential and the variational method**

**Ainola, Leo** Tallinna Tehnikaülikooli Toimetised 1994 / lk. 11-18

### **The skin friction coefficient during accelerated flows in pipes**

**Ainola, Leo; Koppel, Tiit; Lamp, Jürgen; Liiv, Uno** XX Congress of the International Association for Hydraulic Research, Moscow USSR September 5-9, 1983. Vol. 6, Proceedings, subject A, B, C, D, supplement 1983 / p. 453-460  
[https://www.ester.ee/record=b1984825\\*est](https://www.ester.ee/record=b1984825*est)

### **Theory of magnetophotoelasticity with multiple reflections**

**Ainola, Leo; Aben, Hillar** Journal of optics A : pure and applied optics 2004 / 1, p. 51-56 : ill

### **О возможностях формулировки вариационной задачи в нелинейной теории упругих оболочек**

**Ainola, Leo** 1957 [https://www.ester.ee/record=b1273997\\*est](https://www.ester.ee/record=b1273997*est) <https://digikogu.taltech.ee/et/Item/9d477f99-eab8-40c8-be38-482e75acd9c8>

### **Transformation equations in polarization optics of inhomogeneous birefringent media**

**Ainola, Leo; Aben, Hillar** Journal of the Optical Society of America A, Optics image science and vision 2001 / 9, p. 2164-2170 : ill  
<https://pubmed.ncbi.nlm.nih.gov/11551050/>

### **Transformation equation in three-dimensional photoelasticity**

**Ainola, Leo; Aben, Hillar** Journal of the Optical Society of America A, Optics image science and vision 2006 / 3, p. 741-746

### **Turbulent structure development in transient pipe flow**

**Ainola, Leo; Daniel, Eghert; Kask, Endel; Koppel, Tiit; Liiv, Uno** Preprinted proceedings : 21st Congress, International Association for Hydraulic Research, Melbourne, 19-23 August 1985 = Comptes-rendus 21e Congrès, Association internationale de recherches hydrauliques, Melbourne, 19 au 23 août 1985. Vol. 6 1985 / p. 6

### **Water network model as a tool for making rehabilitation decisions**

**Ainola, Leo; Koppel, Tiit; Kändler, Nils** XXII Nordic Hydrological Conference : Roros, Norway 4-7 August 2002. Vol. II 2002 / p. 749-756 : ill

### **Water network model calibration based on grouping pipes with similar leakage and roughness estimates**

**Ainola, Leo; Koppel, Tiit; Tiiter, K.; Vassiljev, Anatoli** Proceedings of ASCE's 2000 : Joint Conference on Water Resources Engineering and Water Resources Planning & Management 2000 / [9] p., [CD-ROM]  
[https://www.researchgate.net/publication/268593940\\_Water\\_Network\\_Model\\_Calibration\\_Based\\_on\\_Grouping\\_Pipes\\_with\\_Similar\\_Leakage\\_and\\_Roughness\\_Estimates](https://www.researchgate.net/publication/268593940_Water_Network_Model_Calibration_Based_on_Grouping_Pipes_with_Similar_Leakage_and_Roughness_Estimates)

### **Вариационные принципы и законы взаимности для нестационарных задач течения жидкости в трубах**

**Ainola, Leo; Liiv, Uno** Прогнозирование и регулирование качества воды и водоемов и исследование методов очистки природных и сточных вод 1978 / с. 53-62 [https://www.ester.ee/record=b1499379\\*est](https://www.ester.ee/record=b1499379*est) <https://digikogu.taltech.ee/et/Item/0f942b52-ffe6-48f6-bb86-0ab5235b554c>

### **Волновые процессы деформации упругих плит и оболочек**

**Ainola, Leo; Nigul, Uno** Eesti NSV Teaduste Akadeemia toimetised. Füüsika-matemaatika- ja tehnikateaduste seeria = Известия Академии наук Эстонской ССР. Серия физико-математических и технических наук 1965 / с. 3-63 : рис  
[https://www.ester.ee/record=b1264320\\*est](https://www.ester.ee/record=b1264320*est) <https://www.etera.ee/zoom/19651/view?page=1&p=separate&tool=info>

### **Гидравлика и пневматика**

**Reedik, Vello; Grossschmidt, Gunnar; Vanaveski, Jüri; Pais, Enno; Pahapill, Jaak; Ainola, Leo; Liiv, Uno; Ruustal, Endel; Kask, Endel; Koppel, Tiit; Lepp, Andres; Ruubel, R.; Sarv, Laur; Daniel, Eghert; Tiiman, Ago; Kõiv, Teet-Andrus** 1987  
[https://www.ester.ee/record=b1317064\\*est](https://www.ester.ee/record=b1317064*est)

### **Импульсные течения несжимаемой жидкости в напорных трубах**

**Ainola, Leo; Liiv, Uno; Ruustal, Endel** Гидроаэродинамика и динамика систем управления 1987 / с. 67-80

### **Интегральные соотношения и параметры течения при нестационарных движениях жидкость в цилиндрических трубах**

**Ainola, Leo; Koppel, Tiit; Liiv, Uno** Шестой Всесоюзный съезд по теоретической и прикладной механике, Ташкент, 24-30 сентября 1986 г. : аннотация. докладов 1986 / с. 1-20

**Исследование замены режима ламинарного нестационарного движения турбулентным в трубах**

**Ainola, Leo; Koppel, Tiit; Lamp, Jürgen; Liiv, Uno** Пятый Всесоюзный съезд по теоретической и прикладной механике, Алма-Ата, 27 мая - 3 июня 1981 года : аннотации докладов 1981 / с. ? [https://www.ester.ee/record=b2682342\\*est](https://www.ester.ee/record=b2682342*est)

**Исследование локальных скоростей при разгонном движении жидкости из состояния покоя в трубе**

**Ainola, Leo; Koppel, Tiit; Lamp, Jürgen; Liiv, Uno** Прогнозирование и регулирование качества воды водоемов и исследование методов очистки природных и сточных вод 1980 / с. 35-45 : илл [https://www.ester.ee/record=b1283634\\*est](https://www.ester.ee/record=b1283634*est)  
<https://digikogu.taltech.ee/et/Item/dcc66d6e-5806-4d18-869a-be4e1dcef643>

**Исследование переходных процессов в сжимаемой жидкости в трубах с помощью численных методов**

**Ainola, Leo; Lamp, Jürgen; Sarv, Laur; Liiv, Uno** Гидротехническое строительство : ежемесячный научно-технический журнал 1981 / с. 22-25 : рис [https://www.ester.ee/record=b2136666\\*est](https://www.ester.ee/record=b2136666*est)

**Исследование переходных процессов сжимаемой жидкости в трубах с помощью численных методов**

**Ainola, Leo; Lamp, Jürgen; Liiv, Uno; Sarv, Laur** Всесоюзный симпозиум "Численные методы в гидравлике", г. Телави, 14.04-18.04.1980 : Тезисы сообщений 1980 / с. 100-103

**Исследование переходных процессов сжимаемой жидкости в трубах с помощью численных методов**

**Ainola, Leo; Lamp, Jürgen; Sarv, Laur; Liiv, Uno** Численные методы в гидравлике: тезисы докладов Всесоюзного симпозиума 1980 / с. [?]

**К методам интегрирования уравнений неустановившегося движения жидкости в трубах**

**Ainola, Leo; Liiv, Uno** Прогнозирование и регулирование качества воды и водоемов и исследование методов очистки природных и сточных вод 1978 / с. 63-72 [https://www.ester.ee/record=b1499379\\*est](https://www.ester.ee/record=b1499379*est) <https://digikogu.taltech.ee/et/Item/0f942b52-ffe6-48f6-bb86-0ab5235b554c>

**К обратной задаче о собственных колебаниях упругих оболочек**

**Ainola, Leo** Прикладная математика и механика 1971 / с. 358-364 [https://www.ester.ee/record=b1582396\\*est](https://www.ester.ee/record=b1582396*est)

**К постановке обратной задачи о собственных колебаниях в общей теории упругих оболочек**

**Ainola, Leo** Теория оболочек и пластин : [труды VIII Всесоюзной конференции по теории оболочек и пластин, Ростов-на-Дону, 1971] 1973 / с. 366-370 [https://www.ester.ee/record=b2749835\\*est](https://www.ester.ee/record=b2749835*est)

**Коэффициент трения при ускоренных течениях в трубах**

**Ainola, Leo; Liiv, Uno** Неустановившиеся процессы в системах водоснабжения и водоотведения 1984 / с. 21-31 : ил [https://www.ester.ee/record=b1515123\\*est](https://www.ester.ee/record=b1515123*est) <https://digikogu.taltech.ee/et/Item/7a3e5ec9-e368-48d8-8318-707fc169c3dd>

**Математические модели для нестационарных течений в трубах**

**Ainola, Leo; Liiv, Uno** Неустановившиеся процессы в системах водоснабжения и водоотведения 1985 / с. 85-94 : ил [https://www.ester.ee/record=b1255730\\*est](https://www.ester.ee/record=b1255730*est) <https://digikogu.taltech.ee/et/Item/68ba7b3b-95ab-41aa-9367-4b796e892cbd>

**Нестационарное движение жидкости в трубе вместе с поплавком, имеющим форму цилиндрической трубы**

**Ainola, Leo; Liiv, Uno** Неустановившиеся процессы в системах водоснабжения и водоотведения 1988 / с. 73-82

**О коэффициенте трения для ламинарных нестационарных течений в трубе**

**Ainola, Leo; Koppel, Tiit; Lamp, Jürgen; Liiv, Uno; Eensalu, Olav** Неустановившиеся процессы в системах водоснабжения и водоотведения 1981 / с. 3-15 : илл [https://www.ester.ee/record=b1319728\\*est](https://www.ester.ee/record=b1319728*est) <https://digikogu.taltech.ee/et/Item/a29e3511-a15e-4820-91bd-9a53eb726784>

**О критериях перехода ламинарной формы течения в турбулентную при разгонном движении жидкости в круглой трубе**

**Ainola, Leo; Koppel, Tiit; Lamp, Jürgen; Liiv, Uno** Неустановившиеся процессы в системах водоснабжения и водоотведения 1981 / с. 17-29 : илл [https://www.ester.ee/record=b1319728\\*est](https://www.ester.ee/record=b1319728*est) <https://digikogu.taltech.ee/et/Item/a29e3511-a15e-4820-91bd-9a53eb726784>

**О математических моделях исследования нестационарных течений жидкости в трубах**

**Ainola, Leo; Liiv, Uno** Неустановившееся движение жидкости в трубах 1980 / с. 29-40 [https://www.ester.ee/record=b1263941\\*est](https://www.ester.ee/record=b1263941*est)  
<https://digikogu.taltech.ee/et/Item/aeac2da9-cb51-4746-9dc3-c435104586eb>

**О рассеянии акустических волн от упругих сферических оболочек : автореферат ... кандидата технических наук (023)**

Metsaveer, Jaan 1970 [https://www.ester.ee/record=b1380792\\*est](https://www.ester.ee/record=b1380792*est)

**О рассеянии акустических волн от упругих сферических оболочек : диссертация на соискание ученой степени кандидата технических наук**

Metsaveer, Jaan 1970 [https://www.ester.ee/record=b3036970\\*est](https://www.ester.ee/record=b3036970*est)

### **Об учете сжимаемости при неустановившемся движении жидкости в трубах**

**Ainola, Leo; Liiv, Uno** Прогнозирование и регулирование качества воды и водоемов и исследование методов очистки природных и сточных вод 1978 / с. 45-52 [https://www.ester.ee/record=b1499379\\*est](https://www.ester.ee/record=b1499379*est) <https://digikogu.taltech.ee/et/Item/0f942b52-ffe6-48f6-bb86-0ab5235b554c>

### **Определение напряженного состояния упругой изотропной среды с включениями : автореферат ... кандидата физико-математических наук (01.02.04)**

Kulmet, Reet 1989 [http://www.ester.ee/record=b1258808\\*est](http://www.ester.ee/record=b1258808*est)

### **Определение напряженного состояния упругой изотропной среды с включениями : диссертация ... кандидата физико-математических наук : 01.02.04 - механика деформируемого твердого тела**

Kulmet, Reet 1989 [http://www.ester.ee/record=b2473395\\*est](http://www.ester.ee/record=b2473395*est)

### **Применение интегральной фотоупругости для определения остаточных напряжений в стекле**

Aben, Hillar; **Ainola, Leo; Anton, Johan** Проблемы машиностроения и надежности машин 2003 / с. 37-44

### **Развитие течения на входном участке круглой трубы при разгонном движении жидкости**

**Ainola, Leo; Ruustal, Endel** Неустановившиеся процессы в системах водоснабжения и водоотведения 1985 / с. 95-107 : ил [https://www.ester.ee/record=b1255730\\*est](https://www.ester.ee/record=b1255730*est) <https://digikogu.taltech.ee/et/Item/68ba7b3b-95ab-41aa-9367-4b796e892cbd>

### **Разгонное движение несжимаемой жидкости вместе с цилиндрическим поплавком в цилиндрической трубе**

**Ainola, Leo; Liiv, Uno** Гидроаэродинамика и динамика систем управления 1983 / с. 3-9 [https://www.ester.ee/record=b1273193\\*est](https://www.ester.ee/record=b1273193*est) <https://digikogu.taltech.ee/et/Item/6eddf5c2-8425-45ed-8c1b-1a000c6f681a>

### **Санитарная техника**

**Suurkask, Valdu; Mölder, Heino; Help, Kalju; Ütt, Jaanus; Blonskaja, Viktoria; Vostrikov, Valeri; Karu, Jaan; Koppel, Tiit; Sarv, Laur; Tiiman, Ago; Säärekönnö, Jüri; Kirt, Enno; Kõiv, Teet-Andrus; Kask, Endel; Aitsam, Alar; Daniel, Eghert; Sarv, Laur; Ainola, Leo; Liiv, Uno** 1988 [https://www.ester.ee/record=b1223647\\*est](https://www.ester.ee/record=b1223647*est)

### **Спектральный анализ ускоренного турбулентного движения жидкости в трубопроводах**

**Ainola, Leo; Koppel, Tiit; Lamp, Jürgen; Liiv, Uno** Неустановившееся движение жидкости в трубах 1980 / с. 3-15 : илл [https://www.ester.ee/record=b1263941\\*est](https://www.ester.ee/record=b1263941*est) <https://digikogu.taltech.ee/et/Item/aeac2da9-cb51-4746-9dc3-c435104586eb>

### **Теоретическое исследование неустановившегося движения жидкости в круглых трубах при помощи диссипативной модели**

**Ainola, Leo; Lamp, Jürgen; Liiv, Uno; Sarv, Laur** Прогнозирование и регулирование качества воды водоемов и исследование методов очистки природных и сточных вод 1980 / с. 25-34 : илл [https://www.ester.ee/record=b1283634\\*est](https://www.ester.ee/record=b1283634*est) <https://digikogu.taltech.ee/et/Item/dcc66d6e-5806-4d18-869a-be4e1dcef643>

### **Уравнения движения возмущений ламинарного нестационарного течения сжимаемой жидкости в цилиндрической трубе**

**Ainola, Leo; Koppel, Tiit** Неустановившиеся процессы в системах водоснабжения и водоотведения 1983 / с. 37-45 [https://www.ester.ee/record=b1288813\\*est](https://www.ester.ee/record=b1288813*est) <https://digikogu.taltech.ee/et/Item/8421bbec-80f9-4a7b-bbfa-deb3bcbf3a68>