

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

Ambiguity of the fringe order in integrated photoelasticity

Aben, Hillar; **Anton, Johan**; Josepson, J. Proceedings 3rd International Workshop on Automatic Processing of Fringe Patterns FRINGE'97 1997 / p. 309-318

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

Automatic measurement of residual stress in glass articles of complicated shape

Aben, Hillar; **Anton, Johan**; Errapart, Andrei Verre 2003 / p. 44-49 : ill

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

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

Et klaas ei puruneks : [intervjuu Hillar Abeniga]

Aben, Hillar Teadusmõtte Kübermeetika Instituudis 2010 / lk. 91-99 : portr

Fotoelastsuse demonstratsioonkatsed ja laboratoorsed tööd

Laid, E.; **Brosman, Edvard** XXXII üliõpilaste teaduslik-tehnilise konverentsi ettekannete teesid : pühendatud V. I. Lenini 110. sünniaastapäevale : 16.-18. aprill 1980 1981 / lk. 68-69 https://www.ester.ee/record=b1322611*est

GlasStress : nad tõesti teavad, kuidas klaasi kvaliteeti hinnata

Puusild, Harro Inseneeria 2015 / lk. 7-8 : ill https://artiklid.elnet.ee/record=b2738546*est

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

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

Integraalne fotoelastsusmeetod klaastoodete kvaliteedi kontrollimiseks

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

Integraalse fotoelastsuse tehnoloogia mõõdab jääkpingeid : [autori doktoritööst]

Anton, Johan Inseneeria 2008 / 7, lk. 44-45 : ill

Integraalse fotoelastsusmeetodi teooria, mõõtmistehnoloogia ja aparatuuri väljatöötamine ja rakendamine jääkpingete mõõtmiseks klaasitööstuses : kommentaar Eesti Vabariigi teaduse aastapreemia pälvinud 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

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

Integrated photoelasticity in case of weak birefringence

Aben, Hillar; **Idnurm, Siim**; Puro, Alfred Eesti Teaduste Akadeemia Toimetised. Füüsika. Matemaatika 1990 / 3, lk. 268-275: ill

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

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

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

Lahkus sädelev mehaanikateadlane Hillar Aben = Умер выдающийся ученый-механик Хиллар Абен

postimees.ee 2024 [Lahkus sädelev mehaanikateadlane Hillar Aben](#) [Умер выдающийся ученый-механик Хиллар Абен](#)

Mis on fotoelastsus?

Aben, Hillar Vaateid mehaanikale Eestis : 1918-2018 2019 / lk. 145-149 https://www.ester.ee/record=b5190016*est

Modern photoelasticity for residual stress measurement in glass articles of complicated shape

Aben, Hillar; **Anton, Johan;** Puro, A. Fundamentals of glass science and technology 1997

A new approach to edge stress measurement in tempered glass panels

Aben, Hillar; Lochegnies, Dominique; Chen, Y.; **Anton, Johan;** Paemurru, Mart; **Õis, Marella** Experimental mechanics 2015 / p. 483-486 : ill <https://doi.org/10.1007/s11340-014-9950-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A new method for tempering stress measurement in glass panels

Aben, Hillar; Anton, Johan; Paemurru, Mart; **Õis, Marella** Estonian journal of engineering 2013 / p. 292-297 : ill
<https://doi.org/10.3176/eng.2013.4.04> [Article at Scopus](#)

Nonaxisymmetric residual stress distribution in axisymmetric glass articles

Aben, Hillar; Anton, Johan; Josepson, Jüri Glass science and technology = Glastechnische Berichte 1996 / p. 75-81 : ill

On the fracture mechanics of prince Rupert's Drops

Aben, Hillar; Anton, Johan; Peterson, Pearu; **Õis, Marella** Proceedings of the First International Conference on Theoretical, Applied and Experimental Mechanics : ICTAEM 2018 : conference proceedings 2019 / p. 158-160 https://doi.org/10.1007/978-3-319-91989-8_36

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

On the role of T.J.Seebeck in the discovery of the photoelastic effect in glass

Aben, Hillar Proceedings of the Estonian Academy of Sciences. Engineering 2007 / 4, p. 283-294 : ill

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 and non-linear approximation = Fotoelastsustomograafia lineaarses ja mittelineaarses lähenduses

Errapart, Andrei 2012 <https://digi.lib.ttu.ee/ii/?721>

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

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]

Photoelastic tomography with linear and non-linear algorithms

Aben, Hillar; Errapart, Andrei Experimental mechanics 2012 / p. 1179-1193 : ill

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

Prints Ruperti pisarate müsteerium

Saari, Peeter Arvamus, kultuur : [ajalehe Postimees lisa] 2023 / Lk. 10 [Prints Ruperti pisarate äärmiselt plahvatusohtlik müsteerium](https://dea.digar.ee/article/ak/2023/10/21/8.1)
<https://dea.digar.ee/article/ak/2023/10/21/8.1>

Prints Ruperti pisarate müsteeriumi lahendamine : ühe teadusprojekti lugu

Õis, Marella; Anton, Johan; Aben, Hillar Horisont 2017 / lk. 32-35 : fot http://www.ester.ee/record=b1072243*est
https://artiklid.elnet.ee/record=b2819551*est

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

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

Aben, Hillar; Anton, Johan; Puro, A. Fifth International Conference on Residual Stress : ICRS-5 : proceedings : Linköping, Sweden, 1998. 2 1998 / p. 834-839

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

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

Technology of integrated photoelasticity for residual stress measurement in glass articles of axisymmetric shape = Integraalse fotoelastsuse tehnoloogia jääkpingete määramiseks telgsümmeetrilistes klaasobjektides

Anton, Johan 2008 http://www.ester.ee/record=b2394498*est

Tee teoreetilisest polarisatsioonoptikast klaasitööstuseni. Fotoelastsus. Pinged läbipaistvates materjalides. Polariskoobid

Aben, Hillar; Anton, Johan Keeruka maailma võlu 2015 / lk. 83-87 : ill https://www.ester.ee/record=b4488344*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

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

Ühest Thomas Johann Seebecki laineid löönud avastusest optikas

Aben, Hillar Akadeemia 2008 / lk. 2240-2256, 2331 : ill https://artiklid.elnet.ee/record=b1998918*est
https://www.ester.ee/record=b1071914*est

Интегральная фотоупругость кубических монокристаллов

Aben, Hillar; Brosman, Edvard; Kaplan, M. Proceedings of the eighth All-Union conference on photoelasticity. 4 : Tallinn, September, 25-28, 1979 = Материалы VIII Всесоюзной конференции по методу фотоупругости 1979 / с. 14-16 : ил
https://www.ester.ee/record=b1266656*est

Метод неточной иммерсии в интегральной фотоупругости

Aben, Hillar; Brosman, Edvard; Saar, A. Proceedings of the eighth All-Union conference on photoelasticity. 2 : Tallinn, September, 25-28, 1979 = Материалы VIII Всесоюзной конференции по методу фотоупругости 1979 / с. 12-15 : ил
https://www.ester.ee/record=b1266648*est

Метод характеристических направлений в фотоупругости : автореферат ... доктора технических наук

Aben, Hillar 1966 https://www.ester.ee/record=b1513386*est

Определение коэффициента фотоупругости без применения специального образа

Idnurm, Siim; Pikk, T. Тезисы докладов XXXI студенческой научно-технической конференции 1980 / с. 94-95
https://www.ester.ee/record=b1319482*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 метода рассеянного света для определения напряжений в кубических монокристаллах : диссертация ... кандидата физико-математических наук : 01.02.04 - механика деформируемого твердого тела

Josepson, Jüri 1988 http://www.ester.ee/record=b2473378*est

Развитие метода рассеянного света для определения напряжения в кубических монокристаллах : автореферат ... кандидата физико-математических наук (01.02.04)

Josepson, Jüri 1989 http://www.ester.ee/record=b1258793*est

Распределение остаточных напряжений в объеме выращенных из расплава монокристаллов хлористого калия Brosman, Edvard; Goriletski, V.; Kaplan, M.; Ljahov, V.; Sumin, V.; Eidelman, L. Proceedings of the eighth All-Union conference on photoelasticity. 4 : Tallinn, September, 25-28, 1979 = Материалы VIII Всесоюзной конференции по методу фотоупругости 1979 / с. 30-33 : ил https://www.ester.ee/record=b1266656*est