

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

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 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

Automatic measurement of residual stresses in tempered tumbler

Anton, Johan Proceedings of 14th Danubia-Adria Symposium on Experimental Methods in Solid Mechanics, Poreč, Croatia, 1997 1997 / p. 4-5

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

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

Experimental evaluation and numerical modelling residual stresses in glass panel

Majak, Jüri; Anton, Johan; Öunapuu, Erko; Auriemma, Fabio; Pohlak, Meelis; Eerme, Martin; Klauson, Aleksander 2018 International Conference on Materials Science and Manufacturing Engineering (MSME 2018) MATEC web of conferences 2019 / art. 02003, 7 p. : ill <https://doi.org/10.1051/mateconf/201925302003>

Gradient scattered light method for non-destructive stress profile determination in chemically strengthened glass

Hödemann, Siim; Valdmann, Andreas; Anton, Johan; Murata, Takashi Journal of materials science 2016 / p. 5962-5978 : ill <http://dx.doi.org/10.1007/s10853-016-9897-4>

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

Integraalne fotoelastsusmeetod klaastoodete kvaliteedi kontrollimiseks

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

Integraalse fotoelastsuse tehnoloogia mõõdab jääkpingeid : [autori doktoritööst]

Anton, Johan Inseneria 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

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

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 Küberneetika Instituudis 2010 / lk. 131-147 : ill

Material characterization for laminated glass composite panel

Väer, Kaur; Anton, Johan; **Klauson, Aleksander; Eerme, Martin; Õunapuu, Erko;** Tšukrejev, Pavel Journal of achievements in materials and manufacturing engineering 2017 / p. 11-17

Measuring the 2D residual surface stress mapping in tempered glass under the cooling jets : the influence of process parameters on the stress homogeneity and isotropy

Chen, Y.; Lohegnies, Dominique; Defontaine, R.; **Anton, Johan; Aben, Hillar;** Langlais, R. Strain: an international journal for experimental mechanics 2013 / p. 60-67 : ill

Modelling residual stresses in glass structures

Õunapuu, Erko; Anton, Johan; **Klauson, Aleksander** AIP conference proceedings 2019 / art. 330007

<https://doi.org/10.1063/1.5114345> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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; Lohegnies, 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>

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 non-destructive residual stress measurement in glass panels

Aben, Hillar; Anton, Johan; Errapart, Andrei; Hödemann, Siim; Kikas, Jaak; Klaassen, Helina; Lamp, Marko Estonian journal of engineering 2010 / 2, p. 150-156 : ill

On the extraordinary strength of Prince Rupert's drops

Aben, Hillar; Anton, Johan; Õis, Marella; Viswanathan, K.; Chandrasekar, S.; Chaudhri, M. M. Applied physics letters 2016 / p. 231903-1 - 231903-4 : ill <http://dx.doi.org/10.1063/1.4971339>

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 inhomogeneity of residual stresses in tempered glass panels

Anton, Johan; **Errapart, Andrei;** Paemurru, Mart; Lohegnies, Dominique; Hödemann, Siim; **Aben, Hillar** Estonian journal of engineering 2012 / p. 3-11 : 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 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

Prints Ruperti pisarate müsteeriumi lahendamise : ühe teadusprojekti lugu

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

Three-dimensional cell counting based on two dimensional cross-section images

Anton, Johan; Saar, Tõnis Elektronika ir elektrotehnika = Electronics and electrical engineering 2011 / p. 89-94

Применение интегральной фотоупругости для определения остаточных напряжений в стекле

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