

Average residual stresses in hard Physical Vapor Deposited (PVD) coatings

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakob; **Mikli, Valdek; Adoberg, Eron; Vagiström, Heinar; Kübarsepp, Jakob; Peetsalu, Priidu** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 20-25 : ill <https://doi.org/10.4028/www.scientific.net/KEM.799.20> <https://www.scientific.net/KEM.799.20> https://www.ester.ee/record=b5235278*est Conference proceeding at Scopus Article at Scopus

Coefficient of thermal expansion, modulus of elasticity and residual stresses of some powder coatings

Lille, Harri; Kõo, Jakob; **Kulu, Priit; Pihl, Toomas** Abstracts of Scientific Conference Civil Engineering'99, 1999, Jelgava 1999 / p. 12

Comparative analysis of residual stresses determined by various methods in brush-plated hard gold and silver coatings

Lille, Harri; Kõo, Jakob; Ryabchikov, Alexander; Reitsnik, Renno; **Sergejev, Fjodor; Mikli, Valdek** Engineering materials & tribology XXII 2014 / p. 8-11

Comparative analysis of residual stresses in flame-sprayed and electrodeposited coatings using substrate deformation and hole-drilling methods

Lille, Harri; Kõo, Jakob; Rjabtšikov, Aleksander; Toropov, Stanislav; **Veinthal, Renno; Surženkov, Andrei** Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [II] 2010 / p. 474-479

Comparison of curvature and X-Ray methods for measuring of residual stresses in hard PVD coatings

Lille, Harri; Kõo, Jakob; **Gregor, Andre; Ryabchikov, Alexander; Sergejev, Fjodor; Traksmäa, Rainer; Kulu, Priit** Materials science forum 2011 / p. 455-460

Comparison of some mechanical and physical methods for measurement of residual stresses in brush-plated nickel hardened gold and silver coatings

Lille, Harri; Kõo, Jakob; Ryabchikov, Alexander; Reitsnik, Renno; **Sergejev, Fjodor; Matvejev, Dmitri** Materials science = Medžiagotyra 2016 / p. 36-40 : ill <http://dx.doi.org/10.5755/j01.ms.22.1.7439>

Comparison of values of residual stresses determined by various methods in hard nickel coatings prepared by brush-plating in sulfate solution

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakob; Reitsnik, Renno; **Veinthal, Renno; Mikli, Valdek; Sergejev, Fjodor** Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 680-687 : ill

Composition of engineering drawing through communication skills and social/material interactions from the semiotic aspect

Lille, Harri; **Ruus, Aime** IOP conference series : materials science and engineering 4th International Conference on Innovative Materials, Structures and Technologies (IMST 2019) : 25–27 September 2019, Riga, Latvia 2019 / art. 012011, 6 p <https://doi.org/10.1088/1757-899X/660/1/012011> Conference proceedings at Scopus Article at Scopus Article at WOS

Composition of engineering drawing through communication skills and social/material interactions from the semiotic aspect

Lille, Harri; **Ruus, Aime** 4th International Conference Innovative Materials, Structures and Technologies : IMST2019 : Organised by the Faculty of Civil Engineering, Riga, Latvia, 25–27 September 2019 : book of abstracts 2019 / p. 30-31 <https://dom.lndb.lv/data/obj/770639.html> <https://dom.lndb.lv/data/obj/file/27451559.pdf?attach=true>

Determination of modulus of elasticity, nanohardness and residual stresses in brush-plated gold and silver coatings on copper substrate

Lille, Harri; Kõo, Jakob; Rjabtšikov, Aleksander; **Veinthal, Renno; Mikli, Valdek; Sergejev, Fjodor** Materials science = Medžiagotyra 2012 / p. 51-56 : ill

Determination of residual stresses in thermal and cold sprayed coatings by the hole-drilling method

Ryabchikov, Alexander; Lille, Harri; Toropov, Stanislav; Kõo, Jakob; Pihl, Toomas; **Veinthal, Renno** Materials science forum 2011 / p. 171-176

Effect of soaking/oven-drying on mechanical and physical properties of birch (Betula spp.) plywood

Kask, Regino; Lille, Harri; **Kiviste, Mihkel; Kruus, Silver; Lääne, Johann Olaf** Drvna industrija 2021 / p. 121-129 <https://doi.org/10.5552/drvind.2021.1946> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Engineering drawings as a system of visual signs for depicting the design object

Lille, Harri; **Ruus, Aime; Leopold, Cornelia** Engineering Graphics BALTRAF-11 : proceedings of the Eleventh International Conference : Tallinn, Estonia, June 9-10, 2011 2011 / p. 105-110 : ill

Engineering graphics education as the foundation of intercultural engineering communication

Lille, Harri; **Ruus, Aime** Scientific proceedings of the 12th International Conference on Engineering Graphics BALTRAF 2013 : June 5-7, Riga, Latvia 2013 / p. 135/300-140/300 : ill

Evaluation of mechanical properties and residual stresses of hard PVD coatings

Gregor, Andre; Lille, Harri; Kõo, Jakub; **Sergejev, Fjodor;** Traksmaa, Rainer; **Sivitski, Alina;** Kulu, Priit 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATTRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 34

Evaluation of residual stresses in PVD coatings by means of strip substrate length variation and curvature method of plate substrate

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakub; **Adoberg, Eron;** Lind, Liina; **Kurissoo, Liisa;** **Peetsalu, Priidu** Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 212-218 <http://dx.doi.org/10.4028/www.scientific.net/SSP.267.212>

Evaluation of residual stresses in PVD coatings by means of the curvature method of plate

Lille, Harri; Ryabchikov, Alexander; **Adoberg, Eron;** **Kurissoo, Liisa;** **Peetsalu, Priidu;** Lind, Liina Engineering materials and tribology XXV 2017 / p. 404-408 <http://dx.doi.org/10.4028/www.scientific.net/KEM.721.404>

Evaluation of residual stresses in PVD coatings by means of tubular substrate length variation

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakub; **Adoberg, Eron;** **Mikli, Valdek;** **Kübarsepp, Jakob;** **Peetsalu, Priidu** Residual Stresses 2018 ECRS-10 : 10th European Conference on Residual Stresses (ECRS10) : Leuven, Belgium, 11-14th September, 2018 2018 / p. 131-136 : ill <https://doi.org/10.21741/9781945291890-21>

Evaluation of some mechanical and physical properties of 'Oriented Strand Board (OSB/3)' following cyclic accelerated aging tests

Lille, Harri; **Kiviste, Mihkel;** Telling, Renar; Leppik, Taimo; Virro, Indrek; Kask, Regino European Journal of Wood and Wood Products 2022 / p. 731-740 <https://doi.org/10.1007/s00107-022-01803-9>

Evaluation of uncertainties of measurement for residual stresses in coatings determined by the dilatometric method

Rjabtšikov, Aleksander; Lille, Harri; **Laaneots, Rein** Materials science forum 2006 / Residual stresses VII, p. 259-264

Forms used for graphic representation of an object in engineering graphics [Online resource]

Lille, Harri; **Ruus, Aime** Scientific proceedings of the 13th International Conference on Engineering Graphics BALTGRAF-13 : June 25-26, 2015, Vilnius 2015 / p. 58-61 : ill <http://doi.org/10.3846/baltgraf.2015.011> http://www.ester.ee/record=b4512767*est <https://digi.lib.ttu.ee/i/73151>

Graphic representation of an object in engineering as a semiotic sign

Lille, Harri; **Ruus, Aime** 17th International Conference on Geometry and Graphics (ICGG 2016) : 4-8 August 2016, Beijing, China 2016 / p. 1-6

Influence of pretreatment of substrate surface on residual stresses in different cold spray coatings

Rjabtšikov, Aleksander; Lille, Harri; Toropov, Stanislav; Kõo, Jakub; Pihl, Toomas; **Veinthal, Renno** Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 23

Investigation into the residual stresses in gasflame sprayed coatings

Kulu, Priit; Kõo, Jakub; Lille, Harri; **Pihl, Toomas** Tallinna Tehnikaülikooli Toimetised 1994 / lk. 17-31: ill

Investigation of residual stresses and some elastic properties of brush-plated gold and silver galvanic coatings

Lille, Harri; Kõo, Jakub; Rjabtšikov, Aleksander; Reitsnik, Renno; **Veinthal, Renno;** **Mikli, Valdek;** **Sergejev, Fjodor** Engineering materials and tribology 2013 / p. 125-130 : ill

Investigation of residual stresses in flame sprayed Ni-based wear resistant coatings by the hole-drilling and X-ray methods

Ryabchikov, Alexander; Lille, Harri; Reitsnik, Renno; Toropov, Stanislav; **Surženkov, Andrei;** **Kulu, Priit** International Conference on Residual Stresses 9 (ICRS 9) : selected, peer reviewed papers from the 9th International Conference on Residual Stresses (ICRS 9), October 7-9, 2012, Garmisch-Partenkirchen, Germany 2014 / p. 144-149

Investigation of some properties of brush-plated gold and silver galvanic coatings

Lille, Harri; Kõo, Jakub; Ryabchikov, Alexander; Reitsnik, Renno; **Mikli, Valdek;** **Sergejev, Fjodor** Proceedings of the 2nd International Conference Optimization and Analysis of Structures : Tartu, Estonia, August 25-27, 2013 2013 / p. 101-107 : ill

Measurement and relaxation observation of residual stresses in brush-plated gold coating depending on the current density

Lille, Harri; Kõo, Jakub; Rjabtšikov, Aleksander; **Veinthal, Renno;** **Mikli, Valdek** 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATTRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 50

Measurement of residual stresses in brush-plated nickel coating

Lille, Harri; Kõo, Jakub; **Pihl, Toomas** Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to

Measurement of residual stresses in the cold-rolled Fe-Ni-Mn/Invar thermo-bimetallic plate

Lille, Harri; Kõo, Jakub; Valgur, Jaak; Ryabchikov, Alexander; Reitsnik, Renno; **Veinthal, Renno** International Conference on Residual Stresses 9 (ICRS 9) : selected, peer reviewed papers from the 9th International Conference on Residual Stresses (ICRS 9), October 7-9, 2012, Garmisch-Partenkirchen, Germany 2014 / p. 101-106

Mechanism of abrasion-erosion wear of thermal sprayed coatings

Kulu, Priit; Veinthal, Renno; Kõo, Jakub; Lille, Harri Advances in mechanical behaviour, plasticity and damage : proceedings of EUROMAT 2000. Volume 1 2000 / p. 651-656 : ill

On determination of residual stresses in some PVD coatings by the curvature method

Lille, Harri; Ryabchikov, Alexander; **Lind, Liina; Sergejev, Fjodor; Adoberg, Eron; Peetsalu, Priidu** Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 378-382 : ill

On residual and thermal stresses in powder coatings

Lille, Harri; Kõo, Jakub; **Kulu, Priit; Pihl, Toomas** Proceedings of the 2nd International Conference, 27-29th April 2000, Tallinn, Estonia / DAAAM International Vienna, DAAAM National Estonia 2000 / p. 221-224 : ill

On residual stresses in flame sprayed coatings

Pihl, Toomas; Lille, Harri; Kõo, Jakub; **Kulu, Priit** Civil Engineering'99 : proceedings of the conference in Latvia, Jelgava, 1999 1999 / p. 11-16

On residual stresses in flame sprayed coatings

Lille, Harri; Kõo, Jakub; **Kulu, Priit; Pihl, Toomas** Proceedings of the 8th International Baltic Conference : Materials Engineering-99 : September 23-24, Kaunas, Lithuania 1999 / p. 156

On residual stresses in flame sprayed coatings

Lille, Harri; Kõo, Jakub; **Kulu, Priit; Pihl, Toomas** Medžiagotyra = Materials science 1999 / 2, p. 27-29: ill

On the concepts of representation and communication in the course of engineering graphics

Lille, Harri; **Ruus, Aime** Joint conference "Teaching mathematics : retrospective and perspectives" : 13th International Conference and 8th Nordic-Baltic Conference "Agrometrics" : 30 May - 1 June 2012 Tartu, Estonia : proceedings 2012 / p. 167-176 : ill
https://artiklid.elnet.ee/record=b2658863*est

On the residual stresses in melted Ni-based powder coatings

Lille, Harri; Kõo, Jakub; **Kulu, Priit; Pihl, Toomas** Proceedings of the Third National DAAAM Conference in Estonia : SCIENCE '98 1998 / p. 110-113: ill

Relaxation of residual stresses in brush-plated gold and silver coatings on copper and on brass substrates

Lille, Harri; Kõo, Jakub; Ryabchikov, Alexander; Reitsnik, Renno; **Sergejev, Fjodor; Dong, Minjie** Residual stresses IX 2014 / p. 866-871 : ill

Relaxation of residual stresses in brush-plated gold coating

Lille, Harri; Kõo, Jakub; Rjabtšikov, Aleksander; **Laaneots, Rein** Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 491-496 : ill

Representation of an object as a semiotic sign in engineering

Lille, Harri; **Ruus, Aime** ICGG 2018 - proceedings of the 18th International Conference on Geometry and Graphics : 40th Anniversary- Milan, Italy, August 3–7, 2018 2019 / p. 2201-2204 https://doi.org/10.1007/978-3-319-95588-9_202 [Conference proceedings at Scopus Article at Scopus](#)

Residual stresses analysis in brush-plated galvanic coatings deposited from nickel sulfate electrolyte

Lille, Harri; Kõo, Jakub; Rjabtšikov, Aleksander Proceedings of the 57th Annual Conference on Applications of X-ray Analysis [Denver X-ray Conference] and the 8th International Conference on Residual Stresses : 4-8 August 2008, Denver, Colorado, USA 2009 / p. 706-713 : ill

Residual stresses and their relaxation in brush-plated gold and silver coatings

Lille, Harri; Kõo, Jakub; Rjabtšikov, Aleksander; **Veinthal, Renno; Mikli, Valdek** Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 39

Residual stresses in brush-plated gold coating

Lille, Harri; **Kõo, Jakub**; Rjabtšikov, Aleksander; **Laaneots, Rein** Proceedings of the 57th Annual Conference on Applications of X-ray Analysis [Denver X-ray Conference] and the 8th International Conference on Residual Stresses : 4-8 August 2008, Denver, Colorado, USA 2009 / p. 320-327 : ill

Residual stresses in brush-plated gold coatings

Lille, Harri; Kõo, Jakob; **Pihl, Toomas** 15th International Baltic Conference "Engineering Materials & Tribology. Balttrib - 2006" : October 5-6, 2006, Tallinn, Estonia : abstracts 2006 / p. 38-39 : ill

Residual stresses in different brush-plated coatings

Lille, Harri; Kõo, Jakob; Rjabtšikov, Aleksander; **Laaneots, Rein; Pihl, Toomas** Proceedings of the 5th International Conference of DAAAM Baltic : Industrial Engineering - Adding Innovation Capacity of Labour Force and Entrepreneur : 20-22 April 2006, Tallinn, Estonia 2006 / p. 273-278 : ill

Residual stresses in different thermal spray coatings

Lille, Harri; Kõo, Jakob; **Kulu, Priit; Pihl, Toomas** Proceedings of the Estonian Academy of Sciences. Engineering 2002 / 3, p. 162-173 : ill

Residual stresses in some thermal sprayed coatings

Lille, Harri; Kõo, Jakob; **Kulu, Priit; Pihl, Toomas** Materials Engineering & Balttrib 2001 : materials of the X-th International Baltic Conference : September 27-28, Jurmala, Latvia 2001 / p. 164-168 : ill

Residual stresses on various PVD hard coatings on tube and plate substrates

Lille, Harri; Ryabchikov, Alexander; **Peetsalu, Priidu; Lind, Liina; Sergejev, Fjodor; Mikli, Valdek; Kübarsepp, Jakob** Coatings 2020 / art. 1054, 11 p <https://doi.org/10.3390/coatings10111054> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Residual stresses, modulus of elasticity and coefficient of thermal expansion of some powder coatings

Lille, Harri; Kõo, Jakob; **Kulu, Priit; Pihl, Toomas** International DAAAM : [DAAAM National Estonia] : proceedings of the 1st International Conference, 25-27th September 1997, Tallinn, Estonia 1997 / p. 165-168: ill

Semiotic aspects of engineering graphics

Lille, Harri; **Ruus, Aime** 10th International Conference on Engineering Graphics BALTGRAF-10 : June 4-5, 2009, Vilnius, Lithuania : conference proceedings 2009 / p. 83-91 : ill

Study of residual stresses in some gas-flame sprayed coatings

Kulu, Priit; Kõo, Jakob; Lille, Harri; **Pihl, Toomas** Powder Technology 95 : Vth Baltic Conference, November 7-8, 1995, Tallinn 1995 / I. 42 https://www.ester.ee/record=b1492085*est

Определение остаточных напряжений в покрытиях методом замера деформации тонкостенной полосовой подложки : диссертация ... кандидата физико-математических наук : 01.02.03 - строительная механика

Lille, Harri 1986 http://www.ester.ee/record=b2456922*est

Определение остаточных напряжений в покрытиях методом замера деформаций тонкостенной полосовой подложки : автореферат ... кандидата физико-математических наук (01.02.03)

Lille, Harri 1987 http://www.ester.ee/record=b1241159*est