

### **Accuracy of the Mindlin model in A0 Lamb mode scattering from partial through-thickness damage**

**Lints, Martin; Ratassepp, Madis** Applied Sciences (Switzerland) 2024 / art. 9351 <https://doi.org/10.3390/app14209351> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Analysing carbon based hybrid nanocomposites displaying interfacial phenomena with scanning transmission electron microscopy and related techniques**

**Rauwel, Protima; Rauwel, Erwan** Microscopy and imaging science : practical approaches to applied research and education 2017 / p. 389-400 : ill <http://www.microscopy7.org/>

### **Bioimpedance spectro-tomography system using binary multifrequency excitation [Online resource]**

**Min, Mart; Lehti-Polojärvi, M.; Hyttinen, Jari; Rist, Marek; Land, Raul; Annus, Paul** International journal of bioelectromagnetism Proceedings of the 11th International Conference on Bioelectromagnetism : 23-25 May 2018, Aachen, Germany 2018 / p. 76-79 : ill <http://www.ijbem.org/> <https://publications.rwth-aachen.de/record/723893/files/723893.pdf>

### **Developing guided wave tomography for a pipe bend = Ultrahelitimograafia toru põlvede kontrollimiseks**

**Rasgado Moreno, Carlos Omar** 2025 [https://www.ester.ee/record=b5736911\\*est](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>

### **Evaluation of elastic constants in composite laminates with guided wave tomography [Online resource]**

**Ratassepp, Madis; Rao, Jing; Yu, X.; Fan, Zheng** 12th European Conference on Non-destructive Testing : proceedings 2018 / 7 p. : ill <http://cdn.ecndt2018.com/wp-content/uploads/2018/05/ecndt-0597-2018-File001.pdf> <http://www.ecndt2018.com/programme/list-of-authors/>

### **Exploring the three-dimensional vasculature of dermal hard tissues in thyestiid osteostracans using synchrotron radiation microtomography**

**Bremer, Oskar; Qu, Qingming; Sanchez, Sophie; Märss, Tiit; Fernandez, Vincent; Blom, Henning** Journal of Vertebrate Paleontology 2022 / art. e2196318 <https://doi.org/10.1080/02724634.2023.2196318> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Investigation of the reconstruction accuracy of guided wave tomography using full waveform inversion**

**Rao, Jing; Ratassepp, Madis; Fan, Zheng** Journal of sound and vibration 2017 / p. 317-328 : ill <https://doi.org/10.1016/j.jsv.2017.04.017>

### **Mathematical model of troposphere water vapor tomography**

**Miidla, Peep; Rannat, Kalev; Uba, Peep** Proceedings of the Second International Conference on Environmental and Computer Science : ICECS'09 : Dubai, 28-30 December 2009 2009 / p. 183-187

### **Modeling the effect of anisotropy in ultrasonic-guided wave tomography**

**Ratassepp, Madis; Rao, Jing; Yu, Xudong; Fan, Zheng** IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control 2022 / p. 330-339 : ill <https://doi.org/10.1109/TUFFC.2021.3114432> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Multi-frequency capacitance tomography with linear sensors**

**Shtrauss, V.; Lomanovskis, Uldis** BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 155-158 : ill

### **Notes on signals for simultaneous multipoint impedance spectroscopy**

**Priidel, Eiko; Min, Mart; Annus, Paul** International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 6-7 : ill

### **Numerical Application of Guided Wave Tomography Based on Full Waveform Inversion for a Pipe Bend**

**Rasgado Moreno, Carlos Omar; 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/97567>

### **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

### **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>

### **Optimising full waveform inversion with inhomogeneous transducers: Parameters and considerations for successful implementation**

**Rasgado Moreno, Carlos Omar; Xu, Panpan; Rist, Marek; Ratassepp, Madis** NDT & E International 2025 / art. 103265 <https://doi.org/10.1016/j.ndteint.2024.103265>

### **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/i/?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](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

### **Quantification of thickness loss in a liquid-loaded plate using ultrasonic guided wave tomography**

Rao, Jing; **Ratassepp, Madis**; Fan, Zheng Smart materials and structures 2017 / art. 125017, 10 p : ill <http://dx.doi.org/10.1088/1361-665X/aa95e9>

### **Quantification of thickness loss in liquid-loaded pipes based on guided wave tomography**

Rao, Jing; **Ratassepp, Madis**; Fan, Zheng The 7th Asia-Pacific Workshop on Structural Health Monitoring, 2018 Nov, Hong Kong, China (APWSHM 2018) 2019 / 9 p. : ill <https://www.ndt.net/search/docs.php?id=24103>

### **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>

### **Simulated studies of water vapour tomography**

Miidla, Peep; **Rannat, Kalev**; Uba, Peep WSEAS transactions on environment and development 2008 / 3, p. 181-190 : ill

### **The histology of osteostracan hard tissue revisited using synchrotron radiation microtomography**

Bremer, Oskar; Blom, Henning; Qu, Q.; Sanchez, Sophie; **Märss, Tiit** 15th International Symposium on Early and Lower Vertebrates, Qujing, Yunnan, China, August 8-13, 2019 : Conference programme and abstracts 2019 / p. 10-11

### **The magmatic system beneath Torfajökull volcano, Iceland : a combination of radar and seismic interferometric analysis**

Martins, Joao; Hooper, A.J.; Draganov, Deyan; Ruigrok, Elmer; Hanssen, R.F.; White, Robert S.; **Soosalu, Heidi Elisabet** American Geophysical Union, Fall Meeting 09.-13.12.2013 2013 / V51E-2727 <https://repository.tudelft.nl/record/uuid:ae38d8e5-667c-4a4c-ace2-5ba6eae1aeb6>

### **Tomographic approach for tropospheric water vapor detection**

Miidla, Peep; **Rannat, Kalev**; Uba, Peep Computational methods in applied mathematics 2008 / 3, p. 263-278

### **Ultraheli reedab materjalide nähtamatud vigastused**

**Ratassepp, Madis; Lints, Martin** Horisont 2022 / lk. 48-52 : fot [https://www.ester.ee/record=b1072243\\*est](https://www.ester.ee/record=b1072243*est)

### **Unique determination of a planar screen in electromagnetic inverse scattering**

Ola, Petri; **Päivärinta, Lassi Juhani; Sadique, Sadia** Mathematics 2023 / art. 4655 <https://doi.org/10.3390/math11224655> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Use of ultrasound reflection tomography for nondestructive testing**

Jasiuniene, E.; Mažeika, L. BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 345-346

### **МГД-томография профиля скоростей**

**Mežburd, Volf** Магнитная гидродинамика : научно-теоретический журнал 1985 / с. 118-123 : илл  
[https://www.ester.ee/record=b2147013\\*est](https://www.ester.ee/record=b2147013*est)