

Adaptive FE-solution of column supported (Reissner-Mindlin) plates

Kettil, Per; Wiberg, Nils-Erik Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997
1997 / p. 198-201: ill

Adaptive methods in nonlinear finite element analysis of shell structures

Tiller, Ivar; Mathisen, Kjell Magne; Okstad, Knut Morten; Hopperstad, Odd Sture Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 251-254: ill

Adhesion measuring method optimization in reinforced composites

Karjust, Kristo; Pohlak, Meelis; Majak, Jüri Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2012 / p. 633-638 : ill

An advanced finite element model of IPMC

Pugal, Deivid; Kasemägi, Heiki; Kruusmaa, Maarja; Aabloo, Alvo Electroactive Polymer Actuators and Devices (EAPAD) 2008
2008 / p. 692711

An approach to inference of finite state machines based on gravitationally-inspired search algorithm

Spitšakova, Margarita 12th Symposium on Programming Languages and Software Tools : SPLST'11 : Tallinn, Estonia, 5-7 October 2011 : proceedings 2011 / p. 185-195 : ill

An explicit finite volume numerical scheme for 2D elastic wave propagation

Berezovski, Mihail; Berezovski, Arkadi Applied wave mathematics II : selected topics in solids, fluids, and mathematical methods and complexity 2019 / p. 257-280 https://doi.org/10.1007/978-3-030-29951-4_12 https://www.ester.ee/record=b5303400*est

Analysis and prototyping of a low-speed small scale permanent magnet generator for wind power applications

Lepa, Erko; Kilk, Aleksander PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 41-46 : ill <https://ieeexplore.ieee.org/document/6256193>

Analysis of the vibration magnitude of an induction motor with different numbers of broken bars

Martinez, Javier; Belahcen, Anouar; Muetze, Annette IEEE transactions on industry applications 2017 / p. 2711-2720 : ill
<https://doi.org/10.1109/TIA.2017.2657478> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Application of finite element method for the vibrodiagnostics of elastic systems

Arjassov, Gennadi 17th International Conference BEM/FEM99 : Boundary & FEM in Mechanics of Solids & Structures. Vol. 1 2000 / p. 30-32

Axial and torsional buckling analysis of single- and multi-walled carbon nanotubes : finite element comparison between armchair and zigzag types

Rahmani Ahranjani, Ramin; Antonov, Maksim SN Applied Sciences 2019 / art. 1134, 13 p. : ill <https://doi.org/10.1007/s42452-019-1190-0>

Axial synchronous magnetic coupling modeling and printing with selective laser melting

Tiismus, Hans; Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton; Belahcen, Anouar 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/RTUCON48111.2019.8982344>

Basic theory and methods for managing energy efficiency in consumer systems

Karpov, V.; Kabanen, Toivo; Yuldashev, Z. Sh.; Nemtsev, A.; Nemtsev, I. Agronomy research 2016 / p. 1619-1625 : ill
<http://agronomy.emu.ee/category/volume-14/number-5/> http://www.ester.ee/record=b1787401*est Journal metrics at Scopus Article at Scopus

Behavior of fin-plate connection of a composite beam subjected to different fire scenarios

Sakr, Mohamed; Lu, Wei; Talvik, Ivar; Puttonen, Jari Rakenteiden mekaniikka = Journal of structural mechanics 2024 / 23 p
<https://doi.org/10.23998/rm.137617> Journal metrics at Scopus Article at Scopus

Biomimicry and novel structures : advancing the design paradigm of bone implants = Biomimikri ja uudsed struktuurid : luuimplantaatide disainiparadigma edendamine

Rezapourianghahfarokhi, Mansoureh 2024 <https://doi.org/10.23658/taltech.9/2024> https://www.ester.ee/record=b5667691*est
<https://digikogu.taltech.ee/et/Item/7c3aec59-9566-41cb-b59d-b896fa72100e>

Broken bar indicators for cage induction motors and their relationship with the number of consecutive broken bars

Martinez, Javier; Belahcen, Anouar; Arkkio, Antero Electric power applications, IET 2013 / p. 633-642 : ill <https://digital-library.theiet.org/content/journals/10.1049/iet-epa.2012.0338>

B-spline based finite element method in one-dimensional discontinuous elastic wave propagation

Kolman, Radek; Okrouhlik, M.; Berezovski, Arkadi; Gabriel, Dusan; Kopačka, J.; Plešek, J. Applied mathematical modelling 2017 / p. 382-395 : ill <https://doi.org/10.1016/j.apm.2017.01.077> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at

CALFEM - a successful tool teaching the finite element method

Sandberg, Göran; Lindeman, Jonas; Olsson, Karl-Gunnar Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 216-219

Changing of magnetic flux density distribution in a squirrel-cage induction motor with broken rotor bars

Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 11-14 : ill <https://doi.org/10.5755/j01.eee.20.7.8018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Chemical heating for non-instrumented nucleic acid amplification on lab-on-a-chip devices

Pardy, Tamas Proceedings of the 8th Annual Conference of the Estonian National Doctoral School in Information and Communication Technologies : December 5-6, 2014, Rakvere 2014 / p. 95-98 : ill

Collision consequence assessment of ROPAX vessels operating in the Baltic Sea

Tabri, Kristjan; Ehlers, Sören; Kõrgesaar, Mihkel; Stahlberg, Kaarle; **Heinvee, Martin** Proceedings of the ASME 2012 31st International Conference on Ocean, Offshore and Arctic Engineering : OMAE2012 : July 1-6, 2012, Rio de Janeiro, Brazil 2012 / OMAE2012-83626, [9] p.: ill <https://asmedigitalcollection.asme.org/OMAE/proceedings/OMAE2012/44892/375/268786>

Combined FE and particle swarm algorithm for optimization of high speed PM synchronous machine

Belahcen, Anouar; Martin, Florian; El Hadi Zaim, Mohammed; Dlala, Emad; Kolondzovski, Zlatko COMPEL : the international journal for computation and mathematics in electrical and electronic engineering 2015 / p. 475-484 : ill <http://dx.doi.org/10.1108/COMPEL-07-2014-0168>

Comparison of eddy current theory and Finite Element Method for metal evaluation

Gordon, Rauno; Märten, Olev; Kolyshkin, Andrei Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 3 2012 / p. 41-45 : ill

Comparison of model order reduction methods for a switched reluctance machine characterization

Boumesbah, Allaa Eddine; Martin, Florian; Krebs, Guillaume; **Belahcen, Anouar;** Marchand, Claude IEEE transactions on magnetics 2021 / art. 9355193, 7 p. : ill <https://doi.org/10.1109/TMAG.2021.3059969> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Computation of hysteresis torque and losses in a bearingless synchronous reluctance machine

Belahcen, Anouar; Mukherjee, Victor; Martin, Florian; Rasilo, Paavo 21st International Conference on the Computation of Electromagnetic Fields (Compumag 2017) : Daejeon, South Korea, 18-22 June 2017 2017 / p. 214-215 : ill [http://www.compumag.org/CMAG2017/\[PA-A5-10\]_129.pdf](http://www.compumag.org/CMAG2017/[PA-A5-10]_129.pdf)

Computation of hysteresis torque and losses in a bearingless synchronous reluctance machine

Belahcen, Anouar; Mukherjee, Victor; Martin, Florian; Rasilo, Paavo IEEE transactions on magnetics 2018 / art. 7300804, 4 p. : ill <https://doi.org/10.1109/TMAG.2017.2765080> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Computation of stator vibration of an induction motor using nodal magnetic forces [Online resource]

Sathyan, Sabin; **Belahcen, Anouar;** Kataja, Juhani; **Vaimann, Toomas;** Sobra, Jan 2016 XXII International Conference on Electrical Machines (ICEM) : SwissTech Convention Center, Lausanne, Switzerland, 04-07 September, 2016 : proceedings 2016 / p. 2198-2203 : ill <https://doi.org/10.1109/ICELMACH.2016.7732827>

Computation of the stabilization parameter for the finite element solution of advective-diffusive problems

Onate, Eugenio; Garcia, Julio; Idelsohn, Sergio Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 44-72: ill

Constrained algorithm for the selection of uneven snapshots in model order reduction of a bearingless motor

Mukherjee, Victor; Far, Mehrnaz Farzam; Martin, Florian; **Belahcen, Anouar** IEEE transactions on magnetics 2017 / art. 7205304, 4 p. : ill <http://dx.doi.org/10.1109/TMAG.2017.2664505>

Contact stiffness parameters for finite element modeling of contact

Sivitski, Alina; Põdra, Priit Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 211-216 : ill https://www.ester.ee/record=b5235278*est <https://www.scientific.net/KEM.799.211> <https://doi.org/10.4028/www.scientific.net/KEM.799.211> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Convergence rate of iterative process and weighted means

Tammeraid, Ivar Optimization of Finite Element Approximation & Splines and Wavelets : OFEA'2001 : international conference : June 25-29, 2001, St.Petersburg, Russia 2001 / p. 171-172

Coupled wave-equation and eddy-current model for modelling and measuring propagating stress-waves

Peussa, Tommi; Belahcen, Anouar Archives of electrical engineering 2015 / p. 215-226 : ill <http://dx.doi.org/10.1515/ae-2015-0018>

A current spectrum-based algorithm for fault detection of electrical machines using low-power data acquisition devices

Asad, Bilal; Raja, Hadi Ashraf; Vaimann, Toomas; Kallaste, Ants; Pomarnacki, Raimondas; Hyunh, Van Khang Electronics 2023 / art. 1746 <https://doi.org/10.3390/electronics12071746> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Derivation and integration of the time domain signals

Teder, Leo; Arjassov, Gennadi; Pappel, Toivo BEM & FEM : 19th International Conference Mathematical Modelling in Solid Mechanics. Boundary and Finite Elements Methods, 30 May - 2 June 2001, Saint Petersburg, Russia : proceedings. Vol. 1 2001 / p. 120

Design and testing of sandwich structures with different core materials

Herranen, Henrik; Pabut, Ott; Eerme, Martin; Majak, Jüri; Pohlak, Meelis; Kers, Jaan; Saarna, Mart; Allikas, Georg; Aruniit, Aare Materials science = Medžiagotyra 2012 / p. 45-50 : ill https://www.researchgate.net/publication/268366546_Design_and_Testing_of_Sandwich_Structures_with_Different_Core_Materials

Design optimization of structural components for fatigue loading

Pabut, Ott; Eerme, Martin; Majak, Jüri; Pohlak, Meelis Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [I] 2010 / p. 131-135 : ill

Determination of acoustic properties for open duct termination in hot jet conditions using FEM simulation

Rämmal, Hans; Lavrentjev, Jüri Proceedings of the 14th International Congress on Sound and Vibration (ICSV 14) : Cairns (Australia), 9-12 July, 2007 2007 / ? p https://www.researchgate.net/publication/315747798_DETERMINATION_OF_ACOUSTIC_PROPERTIES_FOR_OPEN_DUCT_TERMINATION_IN_HOT_JET_CONDITIONS_USING_FEM_SIMULATION

Development of an axial flux SRM through additive manufacturing

Hussain, Shahid; Kallaste, Ants; Naseer, Muhammad Usman; Tiismus, Hans; Vaimann, Toomas 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p <https://doi.org/10.1109/ICEM60801.2024.10700569>

Domain decomposition approach for efficient time-domain finite-element computation of winding losses in electrical machines

Lehikoinen, Antti; Ikäheimo, Jouni; Arkkio, Antero; Belahcen, Anouar IEEE transactions on magnetics 2017 / art. 7400609, 9 p. : ill <https://doi.org/10.1109/TMAG.2017.2681045>

Dynamics of flight of the fragments with higher order Haar wavelet method

Kivistik, Lenart; Mehrparvar, Marmar; Eerme, Martin; Majak, J Proceedings of the Estonian Academy of Sciences 2024 / p. 108-115 <https://doi.org/10.3176/proc.2024.2.02>

Edge resonance in semi-infinite thick pipe : theoretical predictions and measurements

Ratassepp, Madis; Klauson, Aleksander; Chati, F.; Leon, Fernand; Maze, Gerard Journal of Acoustical Society of America 2008 / 2, p. 875-885 <https://pubmed.ncbi.nlm.nih.gov/18681580/>

Edge resonances in semi-infinite thick pipe : theoretical predictions and measurements [Electronic resource]

Ratassepp, Madis; Klauson, Aleksander; Chati, Farid; Leon, Fernand; Maze, Gerard Special issue of the Revista de Acustica : 19th international Congress on Acoustics, Madrid (Spain), 2-7 September 2007 2007 / [6] p. [CD-ROM] <https://pubs.aip.org/asa/jasa/article/124/2/875/841531/Edge-resonance-in-semi-infinite-thick-pipe>

Effect of PM parameters variability on the operation quantities of a wind generator

Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas 2015 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) : proceedings : Castello del Valentino, Torino, Italy, 26-27 March, 2015 2015 / p. 242-247 : ill <http://dx.doi.org/10.1109/WEMDCD.2015.7194536>

Effect of rotor pole-shoe construction on losses of inverter-fed synchronous motors

Rasilo, Paavo; Belahcen, Anouar; Arkkio, Antero IEEE transactions on industry applications 2014 / p. 208-217 : ill

Elastic wave propagation in periodical one-dimensional problems: Accurate finite element modelling

Kolman, Kolman; Cho, Sang Soo; Park, K.C.; Berezovski, Arkadi; Gonzalez, Joze; Hora, Petra Proceedings of 8th GACM Colloquium on Computational Mechanics For Young Scientists From Academia and Industry August 28th-30th, 2019 University of Kassel, Germany 2019 / p. 23-25 <https://doi.org/10.19211/KUP9783737650939>

Elasto-plastic finite element analysis of axisymmetric bored foundation

Bukotas, G.; Kacianauskas, R. Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 300-302: ill

Emerging challenges for numerical simulations of quasi-static collision experiments on laser-welded thin-walled steel structures

Romanoff, Jani; **Kõrgesaar, Mihkel**; Remes, Heikki Journal of marine science and application 2020 / p. 567-583 : ill
<https://doi.org/10.1007/s11804-020-00174-y> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Error estimation and adaptivity for h-version eigenfrequency analysis

Hager, Patrik; Wiberg, Nils-Erik Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 206-209

Error indicators and mesh refinements for Finite-Element-Computations of elastoplastic deformations

Barthold, F.-J.; Schmidt, M.; Stein, E. Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 13-37: ill

Evaluation of two-electrode system configurations for forearm arteries bioimpedance measurement

Metshein, Margus; Pesti, Ksenija; Lapsa, Didzis; **Annus, Paul**; Janeliukstis, Rims; Elsts, A.; **Märtens, Olev** 2024 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) : proceedings 2024 / 6 p
<https://doi.org/10.1109/I2MTC60896.2024.10561178>

Exploring the real-world challenges and efficacy of internal coupling in metastructures : an experimental perspective

Alimohammadi, Hossein; Vassiljeva, Kristina; Hosseinnia, S. Hassan; **Ellervee, Peeter; Petlenkov, Eduard** 2024 International Conference on Electrical, Computer and Energy Technologies (ICECET) 2024 <https://doi.org/10.1109/ICECET61485.2024.10698725>
Article at Scopus

FEA wear simulation of a conical spinning contact

Põdra, Priit OST-97 Symposium on Machine Design, Tallinn, Estonia, May 22-23, 1997 : proceedings 1997 / p. 135-145: ill
https://www.ester.ee/record=b1083704*est

Field consistence method with application to the development of finite element

Yunhua, Luo Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 224-227: ill

Finite element analysis of induction motors fed by static frequency converters

Arkkio, Antero Тезисы докладов семинара "Новые разновидности электропривода и возможности их применения" 1990 / с. 17-21: ил https://www.ester.ee/record=b1249397*est

Finite element analysis wear simulation of a conical spinning contact considering surface topography

Põdra, Priit; Andersson, Sören Wear 1999 / 1, p. 13-21: ill

Finite element based meta-modeling of ship-ice interaction at shoulder and midship areas for ship performance simulation

Li, Fang; **Kõrgesaar, Mihkel**; Kujala, Pentti; Goerlandt, Floris Marine structures 2020 / art. 102736
<https://doi.org/10.1016/j.marstruc.2020.102736> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Finite element mesh size effect on deformation predictions of reinforced concrete bridge girder

Gribniak, Viktor; Kaklauskas, Gintaris; **Idnurm, Siim**; Bacinskas, Darius The Baltic journal of road and bridge engineering 2010 / p. 19-27 : ill

Finite element modelling for the optimization of microheating in disposable molecular diagnostics

Pardy, Tamas; Rang, Toomas; Tulp, Indrek International journal of computational methods and experimental measurements 2017 / p. 13-22 : ill <https://doi.org/10.2495/CMEM-V5-N1-13-22> Journal metrics at Scopus Article at Scopus

Finite element modelling for the optimization of microheating in disposable molecular diagnostics [Electronic resource]

Pardy, Tamas; Rang, Toomas; Tulp, Indrek 14th International Conference on Simulation and Experiments in Heat Transfer and its Applications : Heat Transfer 2016 : 7-9 September, 2016 Ancona, Italy : unedited papers 2016 / p. [144-155] : ill. [USB]

Finite element modelling of cable networks with flexible supports

Talvik, Ivar Computers and structures 2001 / p. 2443-2450

Finite element modelling of the resistive heating of disposable molecular diagnostics devices

Pardy, Tamas; Rang, Toomas; Tulp, Indrek Computational methods and experimental measurements XVII 2015 / p. 381-391 : ill
<http://dx.doi.org/10.2495/CMEM150341>

Finite element simulation of metal cutting operations

Olovsson, Lars Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 260-263: ill

Formation of property gradient in coarse-grained niobium using a wedge tool : experiment and analysis

Tarasov, Oleksandr; Kübarsepp, Jakob; Viljus, Mart; Saarna, Mart; Sergejev, Fjodor International journal of refractory metals and hard materials 2024 / art. 106905 <https://doi.org/10.1016/j.ijrmhm.2024.106905>

Full field computing for elastic pulse dispersion in inhomogeneous bars

Berezovski, Arkadi; Kolman, Radek; Berezovski, Mihail; Gabriel, Dusan; Adámek, V. Composite structures 2018 / p. 388-394 : ill <https://doi.org/10.1016/j.compstruct.2018.07.055> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Guided waves attenuation due to deposits on the pipe wall

El Moussaoui, Mustapha; Chati, M.; Leon, Fernand; Klauson, Aleksander; Maze, Gerard 2005 IEEE International Ultrasonics Symposium : Rotterdam, The Netherlands, 2005 2005 / p. 586-587 <https://ieeexplore.ieee.org/document/1603021>

Higher-order shear deformation formulation for the structural response of a multideck ship

Imala, Mikk-Markus; Naar, Hendrik; Tabri, Kristjan Ships and offshore structures 2025 / 26 p <https://doi.org/10.1080/17445302.2025.2507714>

A High-performance open-source finite element analysis library for magnetics in MATLAB

Lehikoinen, Antti; Davidsson, T.; Arkkio, Antero; Belahcen, Anouar 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 2018 / p. 486-492 : ill <http://doi.org/10.1109/ICELMACH.2018.8507235>

Hull and superstructure interaction using coupled beam method

Toming, Risto; Kerge, Els-Hedvig; Naar, Hendrik; Tabri, Kristjan; Romanoff, Jani; Remes, Heikki Proceedings of the 13th International Symposium on PRACTical Design of Ships and Other Floating Structures : 4th-8th September, 2016, Copenhagen, Denmark 2016 / p. 851-859 : ill http://orbit.dtu.dk/files/127664364/PRADS_2016_Proceedings_ORBIT.pdf

Importance of iron-loss modeling in simulation of wound-field synchronous machines

Rasilo, Paavo; Belahcen, Anouar; Arkkio, Antero IEEE transactions on magnetics 2012 / p. 2495-2504 : ill <https://ieeexplore.ieee.org/document/6186824>

Improving energy efficiency of biotechnical agricultural systems - scientific and organisational issues

Karpov, V.; Kabanen, Toivo Agronomy research 2018 / p. 1062-1068 : ill <https://doi.org/10.15159/AR.18.043> [Journal metrics at Scopus](#) [Article at Scopus](#)

Infinite strips of mapped elements for unbounded domains

Aalto, Jukka; Kuula, K. Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 310-314: ill

Influence of choice of permanent magnet electromagnetic parameters in the research of electrical devices

Ose-Zala, Baiba; Kallaste, Ants; Vaimann, Toomas PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 225-228 : ill <https://doi.org/10.1109/PQ.2016.7724117>

Influence of magnetic forces and magnetostriction on the vibration behavior of an induction motor

Sathyan, Sabin; Aydin, Ugur; Lehikoinen, Antti; Belahcen, Anouar; Vaimann, Toomas; Kataja, Juhani International journal of applied electromagnetics and mechanics 2019 / p. 825-834 <https://doi.org/10.3233/JAE-171045> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Investigation of FEM software for Magnus Effect Simulation

Lukin, Aleksandr; Demidova, Galina; Lukichev, Dmitry; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 5 p <https://doi.org/10.1109/IWED52055.2021.9376396>

Investigation of molten metal mixing in a DC electric arc furnace with added AC component on different frequencies

Mõlder, Heigo; Järvik, Jaan; Vaimann, Toomas; Gordon, Rauno PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 33-36 : ill <https://www.semanticscholar.org/paper/Investigation-of-molten-metal-mixing-in-a-DC-arc-AC-M%C3%B5lder-Jarvik/38848bbd53c7d118a0077072daa0ffb86f649657>

Investigation of the causes behind the vibrations of a high-speed solid-rotor induction motor

Sathyan, Sabin; Belahcen, Anouar; Lehikoinen, Antti; Aydin, Ugur; Boxberg, Fredrik Journal of sound and vibration 2019 / art. 114976, 14 p <https://doi.org/10.1016/j.jsv.2019.114976> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Isotroopse plaadi Lambi lainete teoreetiline ja eksperimentaalne uurimine

Tiismus, Hans TTÜ üliõpilaste teadustööde konkursi kokkuvõtted : Tipika teaduskonverents, 24. november 2011, Tallinn 2011 / lk. 7

ISSC 2025 Committee III.1 - Compressive test of a transversely stiffened thin-plated structure with expected early

nonlinear response prior to the ultimate capacity: preliminary comparison of the numerical results

Gaiotti, M.; Barsotti, B.; Brubak, L.; Chen, B. Q.; Darie, I.; Georgiadis, D.; Ishibashi, K.; **Körgesaar, Mihkel**; Lv, Y.; Nahshon, K.; Paredes, M.; Ringsberg, J. Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering - OMAE 2024 ; Vol. 2: Structures, Safety, and Reliability 2024 / art. OMAE2024-126382, V002T02A087 ; 8 p. <https://doi.org/10.1115/OMAE2024-126382>

Lightweight 3D printed Ti6Al4V-AlSi10Mg hybrid composite for impact resistance and armor piercing shielding

Rahmani Ahranjani, Ramin; Antonov, Maksim; Brojan, Miha Journal of materials research and technology 2020 / p. 13842-13854 : ill <https://doi.org/10.1016/j.jmrt.2020.09.108> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Loss model for the effects of steel cutting in electrical machines

Sundaria, Ravi; Nair, D. G.; Lehtikoinen, Antti; Arkkio, Antero; **Belahcen, Anouar** 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 2018 / p. 1260–1266 : ill <http://doi.org/10.1109/ICELMACH.2018.8506822>

Lõplike elementide meetod

Lahe, Andres 1998 https://www.ester.ee/record=b1053803*est

Lõplike ja rajaelementide meetodi kasutamine vedeliku ja konstruktsiooni koostöö uurimisel : magistritöö

Käes, Alar 1992 https://www.ester.ee/record=b2629862*est

Manufacturability issues in incremental sheet forming

Pohlak, Meelis; Majak, Jüri; Küttner, Rein 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. 157-162 : ill

Mechanical analysis of multi-surface TPMS lattices for bone applications

Hussainova, I.; Rezapourian, M. Proceedings of the Estonian Academy of Sciences 2025 / p. 222-227 <https://doi.org/10.3176/proc.2025.2.25>

Minimun weight problem of built-in circular plates considering the hardening of material

Kirs, Jüri BEM & FEM : 19th International Conference Mathematical Modelling in Solid Mechanics. Boundary and Finite Elements Methods, 30 May - 2 June 2001, Saint Petersburg, Russia : proceedings. Vol. 1 2001 / p. 76-77

Minimun weight problem of built-in circular plates considering the hardening of material

Kirs, Jüri BEM/FEM-2001 : 19th International Conference Mathematical Modelling in Mechanics of Solid and Structures by Boundary & Finite Elements Methods : proceedings. Vol. 2 2001 / p. 204-209 : ill

Mixed-order finite-element modeling of magnetic material degradation due to cutting

Sundaria, Ravi; Lehtikoinen, Antti; Hannukainen, Antti; Arkkio, Antero; **Belahcen, Anouar** IEEE transactions on magnetics 2018 / art. 7402008, 8 p. : ill <http://dx.doi.org/10.1109/TMAG.2018.2811385>

Model of magnetic anisotropy of non-oriented steel sheets for finite-element method

Martin, Florian; Singh, Deepak; Rasilo, Paavo; **Belahcen, Anouar**; Arkkio, Antero IEEE transactions on magnetics 2016 / [4] p. : ill <http://dx.doi.org/10.1109/TMAG.2015.2488100>

Model order reduction of bearingless reluctance motor including eccentricity

Far, Mehrmaz Farzam; Mukherjee, Victor; **Belahcen, Anouar** 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 2018 / p. 2243–2249 : ill <http://doi.org/10.1109/ICELMACH.2018.8506758>

Model order reduction of electrical machines with multiple inputs

Farzam Far, Mehrmaz; **Belahcen, Anouar**; Rasilo, Paavo; Clenet, Stephane; Pierquin, Antoine IEEE transactions on industry applications 2017 / p. 3355-3360 : ill <https://doi.org/10.1109/TIA.2017.2681967> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modelling and experimental characterisation of self-regulating resistive heating elements for disposable medical diagnostics devices

Pardy, Tamas; Rang, Toomas; Tulp, Indrek Materials characterization VII 2015 / p. 263-271 : ill

Modelling and experimental characterisation of thermoelectric heating for molecular diagnostics devices

Pardy, Tamas; Rang, Toomas; Tulp, Indrek BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 27-30 : ill http://www.ester.ee/record=b2150914*est

Modelling and optimal design of sheet metal RPAMP processes

Küttner, Rein; Pohlak, Meelis; Majak, Jüri 10th European Forum on Rapid Prototyping 2004 / p. 7 <https://www.proquest.com/docview/214029707?sourcetype=Scholarly%20Journals>

Modelling and optimal design of sheet metal RPAMP processes

Pohlak, Meelis; Küttner, Rein; Majak, Jüri Rapid prototyping journal 2005 / 5, p. 304-311 : ill
<https://www.proquest.com/docview/214029707?sourcetype=Scholarly%20Journals>

Modelling of cardiac dynamics and intracardiac bioimpedance = Südame dünaamika ja südamesisese bioimpedantsi modelleerimine

Gordon, Rauno 2007 <https://digi.lib.ttu.ee/i/?147>

A modified dynamic model of single-sided linear induction motors considering longitudinal and transversal effects

Heidari, Hamidreza; Rassölkin, Anton; Razzaghi, Arash; Vaimann, Toomas; Kallaste, Ants; Andriushchenko, Ekaterina; Belahcen, Anouar; Lukichev, Dmitry Electronics 2021 / art. 933, 14 p. : ill <https://doi.org/10.3390/electronics10080933> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modified winding function-based model of squirrel cage induction motor for fault diagnostics

Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassölkin, Anton; Iqbal, Muhammad Naveed IET electric power applications 2020 / p. 1722-1734 <https://doi.org/10.1049/iet-epa.2019.1002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Multi-criteria design optimization of ultra large diameter permanent magnet generator

Pabut, Ott; Eerme, Martin; Kallaste, Ants; Vaimann, Toomas Elektronika ir elektrotehnika = Electronics and electrical engineering 2015 / p. 42-48 : ill <https://doi.org/10.5755/j01.eee.21.3.10278> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Multicriteria optimization of large composite parts

Pohlak, Meelis; Majak, Jüri; Küttner, Rein; Karjust, Kristo 15th International Conference on Composite Structures ICCS 15 : University of Porto, Porto, Portugal, 15-17 June 2009 2009 / p. 1-2

Multi-electrode arc furnace technology with improved metal processing capability using current driven mixing

Mölder, Heigo; Järvik, Jaan; Vaimann, Toomas; Gordon, Rauno Conference proceedings : 2012 11th International Conference on Environment and Electrical Engineering : Venice, Italy, 18-25 May 2012 2012 / p. 313-316 : ill

Multi-objective machine learning optimization of cylindrical TPMS lattices for bone implants

Rezapourianghahfarokhi, Mansoureh; Cheloe Darabi, Ali; Khoshbin, Mohammadreza; **Hussainova, Irina** Biomimetics 2025 / art. 475 <http://doi.org/10.3390/biomimetics10070475>

Nanostructure development in refractory metals : ECAP processing of Niobium and Tantalum using indirect-extrusion technique

Omranpour Shahreza, Babak; Kommel, Lembit; Mikli, Valdek; Garcia, Edgar; Huot, Jacques International journal of refractory metals and hard materials 2019 / p. 1-9 : ill <https://doi.org/10.1016/j.jrmhm.2018.10.018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Necessity for implementation of inverse problem theory in electric machine fault diagnosis

Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants SDEMPED 2015 : 10th IEEE International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives : Guarda, Portugal, September 1-4, 2015 : proceedings 2015 / p. 380-385 : ill <http://dx.doi.org/10.1109/DEMPED.2015.7303718>

Numerical analysis of dynamics of flight of the fragments

Kivistik, Lenart; Eerme, Martin; Majak, Jüri; Kirs, Maarjus AIP conference proceedings 2024 / art. 030016
<https://doi.org/10.1063/5.0189331> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Numerical and experimental investigation on the collision resistance of the X-core structure

Ehlers, Sören; Tabri, Kristjan; Romanoff, Jani; Varsta, Petri Ships and offshore structures 2012 / p. 21-29 : ill
<https://www.tandfonline.com/doi/full/10.1080/17445302.2010.532603>

Numerical evaluation of quarter point crack tip singular element

Tarasovs, S. Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 294

A numerical sensitivity analysis of fluid-structure interaction simulations on slamming loads and responses

Hosseinzadeh, Saeed; Topa, Ameen; **Tabri, Kristjan** IOP conference series : materials science and engineering 2023 / art. 012017, 9 p. : ill <https://doi.org/10.1088/1757-899X/1288/1/012017>

Numerics of localization in drained and undrained soil

Larsson, J.; Larsson, R. Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 286-289: ill

On the generalization and development of improved finite-difference method

Arjassov, Gennadi International Symposium on Machine Design OST 2001 : [Tallinn, Estonia, October 4-5, 2001] : abstracts 2001 / [1] p

On the generalization and development of the improved method of grids

Arjassov, Gennadi OST-01 Symposium on Machine Design : Tallinn, Estonia, October 4-5, 2001 : proceedings 2001 / p. 251-260 : ill

Optimal design of system of cross-beams

Arjassov, Gennadi; Žigailov, Sergei The 8th International Conference Mechatronics Systems and Materials : 8th Conference Mechatronics Systems and Materials 2012, MSM'2012 : Bialystok, Poland, July 8-13, 2012 2012 / p. 120-121
<https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=7668d28ae9556d62f17c50d233059caeeb3f2508>

Optimal design of system of cross-beams

Arjassov, Gennadi; Žigailov, Sergei Mechatronic systems and materials IV 2013 / p. 675-680 : ill
<https://doi.org/10.4028/www.scientific.net/SSP.198.675> [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article collection metrics at WOS](#) [Article at WOS](#)

Optimal mechanical properties of Hydroxyapatite gradient Voronoi porous scaffolds for bone applications — a numerical study

Rezapourianghahfarokhi, Mansoureh; Hussainova, Irina Journal of the mechanical behavior of biomedical materials 2023 / art. 106232 <https://doi.org/10.1016/j.jmbbm.2023.106232> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimization of car frontal protection system

Pohlak, Meelis; Majak, Jüri; Eerme, Martin International journal for simulation and multidisciplinary design optimization 2007 / p. 31-37 https://www.researchgate.net/publication/245491476_Optimization_of_car_frontal_protection_system

Optimization study of composite bathtub

Pohlak, Meelis; Majak, Jüri; Karjust, Kristo; Küttner, Rein Proceedings of Second International Conference on Multidisciplinary Design Optimization and Applications : Gijon, Spain, 3-5 September 2008 2008 / p. 1-10 : ill

Perspectives of metal-diamond composites additive manufacturing using SLM-SPS and other techniques for increased wear-impact resistance

Rahmani Ahranjani, Ramin; Brojan, Miha; Antonov, Maksim; Prashanth, Konda Gokuldoss International journal of refractory metals and hard materials 2020 / art. 105192, 13 p. : ill <https://doi.org/10.1016/j.jirmhm.2020.105192> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Quantitative imaging of Young's modulus in plates using guided wave tomography

Ratassepp, Madis; Rao, Jing; Fan, Zheng NDT&E international 2018 / p. 22-30 : ill <https://doi.org/10.1016/j.ndteint.2017.09.016>

Residuals of Navier-Stokes equations and adaptive finite element mesh generation

Kaceniauskas, A.; Kacianauskas, R. Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 159-162: ill

Review of thermal analysis of permanent magnet assisted synchronous reluctance machines

Ghahfarokhi, Payam Shams; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas; Rassõlkin, Anton PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 219-224 <https://doi.org/10.1109/PQ.2016.7724116>

Scattering of the fundamental torsional mode at an axial crack in a pipe

Ratassepp, Madis; Fletcher, Sam; Lowe, Michael John Stewart The journal of the Acoustical Society of America 2010 / 2, p. 730-740 : ill <https://pubs.aip.org/asa/jasa/article/127/2/730/917913/Scattering-of-the-fundamental-torsional-mode-at-an>

Selected aspects of current challenges in composite product development for automotive and aerospace industry

Czichon, Steffen; Köhnke, Jessica; Preisler, Andreas; Herranen, Henrik Composite materials and structures in aerospace engineering 2016 / p. 51-63 <http://dx.doi.org/10.4028/www.scientific.net/AMM.828.51>

Selective laser melted Ti6Al4V split-P TPMS lattices for bone tissue engineering

Rezapourianghahfarokhi, Mansoureh; Jasiuk, Iwona; Saarna, Mart; Hussainova, Irina International journal of mechanical sciences 2023 / art. 108353 <https://doi.org/10.1016/j.jimecs.2023.108353> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective laser melting of diamond-containing or postnitrided materials intended for impact-abrasive conditions: experimental and analytical study

Rahmani Ahranjani, Ramin; Antonov, Maksim; Kollo, Lauri Advances in materials science and engineering 2019 / art. 4210762 ; 11 p. : ill <https://doi.org/10.1155/2019/4210762> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Simulating sliding wear with finite element method

Põdra, Priit; Andersson, Sören Tribology international 1999 / p. 71-81 : ill

Simulation of incremental forming of sheet metal products

Pohlak, Meelis; Küttner, Rein; Majak, Jüri; Karjust, Kristo; Sutt, Annes Proceedings of the 4th International Conference Industrial Engineering - New Challenges to SME : 29-30 April 2004, Tallinn, Estonia 2004 / p. 149-151 : ill

Simulation of the hot deformation and fracture behavior of reduced activation ferritic/martensitic 13CrMoNbV steel

Shaikh, Asad Alamgir; Churyumov, Alexander; Pozdniakov, Andrey; Churyumo, Tatiana Applied sciences 2020 / art. 530 ; 12 p. : ill
<https://doi.org/10.3390/app10020530> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Simulation of the sensitivity distribution of four-electrode impedance sensing on radial artery

Pesti, Ksenija; Kõiv, Hip; Min, Mart 2019 IEEE Sensors Applications Symposium (SAS 2019), Sophia Antipolis, France, 11-13 March, 2019 : proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/SAS.2019.8705976>

Sissejuhatus lõplike elementide meetodisse

Kirs, Jüri; Arjassov, Gennadi 1999 https://www.ester.ee/record=b1269385*est

Sissejuhatus lõplike elementide meetodisse

Kirs, Jüri; Arjassov, Gennadi 1999 https://www.ester.ee/record=b1057558*est

Sissejuhatus lõplike elementide meetodisse

Kirs, Jüri 2001 https://www.ester.ee/record=b1485146*est

Solitary waves for Non-Destructive Testing applications : delayed nonlinear time reversal signal processing optimization

Lints, Martin; Dos Santos, Serge; **Salupere, Andrus** Wave motion 2017 / p. 101-112 : ill
<https://doi.org/10.1016/j.wavemoti.2016.07.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Some problems with non-classical time integration schemes

Klisinski, Marek; Moström, Annika Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 86-93: ill

Static and dynamic finite element analysis of cable nets with flexible supports

Talvik, Ivar Computing developments in civil and structural engineering : proceedings of the 7th International Conference on Civil and Structural Engineering Computing : Oxford, England, 13-15 September 1999 1999 / p. 91-97

Stretch bending analyses using implicit and explicit FE codes

Clausen, Arild H.; Hopperstad, Odd S.; Langseth, Magnus Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 234-238: ill

Symbolic software tools in finite element development

Eriksson, Anders; Pacoste, Costin Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 220-223: ill

The EST method for the frame analysis

Lahe, Andres Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 202-205: ill

The production technology considerations of large composite parts

Karjust, Kristo; Küttner, Rein; Pohlak, Meelis Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [1] 2008 / p. 251-256 : ill
https://www.researchgate.net/publication/289439727_The_production_technology_considerations_of_large_composite_parts

The program for solving the scalar potential by using finite element method for IBM PC

Dmytryshyn, O.; Tchaban, V. Automation, simulation & measurement : ASM'91 : 3rd biennial conference, Tallinn, October 7-11, 1991. Section S / Tallinn Technical University 1992 / p. 53-58: ill

A theory of coupled beams for non-prismatic ship structure

Kerge, Els-Hedvig; Naar, Hendrik; Tabri, Kristjan Proceedings of the 2nd International Conference Optimization and Analysis of Structures : Tartu, Estonia, August 25-27, 2013 2013 / p. 45-51 : ill

Thermal analysis of a SynRM using a thermal network and a hybrid model

Shams Ghahfarokhi, Payam; Belahcen, Anouar; Kallaste, Ants; Vaimann, Toomas; Gevorgov, Levon; Rassõlkin, Anton 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 2018 / p. 2682-2688 : ill <https://doi.org/10.1109/ICELMACH.2018.8507002>

Thermographic measurement and simulation of power losses due to interlaminar contacts in electrical sheets

Shah, Sahas Bikram; Osemwinyen, Osaruyi; Rasilo, Paavo; **Belahcen, Anouar**; Arkkio, Antero IEEE transactions on instrumentation and measurement 2018 / p. 2628–2634 : ill <https://doi.org/10.1109/TIM.2018.2829321>

3-D eddy current analysis in steel laminations of electrical machines as a contribution for improved iron loss modeling

Handgruber, Paul; Stermecki, Andrej; Biro, Oszkar; **Belahcen, Anouar**; Dlala, Emad Proceedings : 2012 XXth International Conference on Electrical Machines : Palais des Congrès et des Expositions de Marseille Marseille, France, 02-05 September, 2012 2012 / p. 16-22 : ill <https://ieeexplore.ieee.org/document/6510501>

Three-dimensional eddy-current analysis in steel laminations of electrical machines as a contribution for improved iron loss modeling

Handgruber, Paul; Stermecki, Andrej; Biro, Oszkar; **Belahcen, Anouar**; Dlala, Emad IEEE transactions on industry applications 2013 / p. 2044-2052 : ill <https://doi.org/10.1109/TIA.2013.2260713> <https://ieeexplore.ieee.org/document/6510501> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Three-dimensional finite element modelling of chemical environment in droplet-based microfluidic systems for drug therapy applications

Szomor, Zsombor; **Gyimah, Nafisat**; Pardy, Tamas; Fürjes, Peter Physics of fluids 2025 / art. 072045 <https://doi.org/10.1063/5.0275809>

Toward the application of the layer-wise displacement theory in passenger ships - a quasi-static response

Imala, Mikk-Markus; Naar, Hendrik; Tabri, Kristjan; Romanoff, Jani Mechanics of Advanced Materials and Structures 2023 / p. 4698-4710 <https://doi.org/10.1080/15376494.2022.2103859> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Towards an adaptive h-type procedure using recovery based estimators

Ziukas, S.; Wiberg, Nils-Erik Tenth Nordic Seminar on Computational Mechanics, Tallinn Technical University, October 24-25, 1997 1997 / p. 210-213: ill

A 2D FEM model for transient and fault analysis of induction machines

Martinez, Javier; **Belahcen, Anouar**; Arkkio, Antero Przegląd elektrotechniczny = Electrical review 2012 / p. 157-160 : ill <http://pe.org.pl/articles/2012/7b/41.pdf>

A 2D magnetic and 3D mechanical coupled finite element model for the study of the dynamic vibrations in the stator of induction motors

Martinez, Javier; **Belahcen, Anouar**; Detoni, Joaquim G. Mechanical systems and signal processing 2016 / p. 640-656 : ill <http://dx.doi.org/10.1016/j.ymssp.2015.06.014>

Uncertainty propagation of iron loss from characterization measurements to computation of electrical machines

Belahcen, Anouar; Rasilo, Paavo; Nguyen, Thu-Trang; Clénet, Stephane COMPEL : The international journal for computation and mathematics in electrical and electronic engineering 2015 / p. 624-636 : ill <http://dx.doi.org/10.1108/COMPEL-10-2014-0271>

Using FEM in tribology

Põdra, Priit Proceedings of the First National DAAAM Conference in Estonia : Science '95 1996 / p. 67-75: ill

Wave equations in mechanics

Engelbrecht, Jüri Estonian journal of engineering 2013 / p. 273-282 <https://doi.org/10.3176/eng.2013.4.02> [Article at Scopus](#)

Алгоритм оптимизации пространственных стержневых систем методом конечных элементов

Nõmme, M.K. Тезисы докладов Всесоюзной конференции "Современные методы и алгоритмы расчета и проектирования строительных конструкций с использованием ЭВМ", Таллин, с 18 по 20 октября 1979 года. Часть вторая, [секция 3, Системы автоматизации проектирования. [Секция] 4, Проектирование оптимальных конструкций 1979 / с. 163-164 http://www.ester.ee/record=b1271175*est

Исследование распространения волн напряжений в пластинах и оболочках методом конечных элементов

Käerdi, Helmo 1974 http://www.ester.ee/record=b2307038*est

Исследование распространения волн напряжений в пластинах и оболочках методом конечных элементов : автореферат ... кандидата технических наук (01.02.03)

Käerdi, Helmo 1974 http://www.ester.ee/record=b1327826*est

Исследование распространения упругих волн в угловых соединениях балок и складчатых конструкциях методом конечных элементов

Käerdi, Helmo; Poverus, Lembit Труды по строительной механике : сборник статей. 5 1974 / с. 49-55 : илл http://www.ester.ee/record=b2190653*est <https://digikogu.taltech.ee/et/Item/66202bf2-fa56-47cc-8d36-17e663cd263d>

Исследование распространения упругих волн в цилиндрической и сферической оболочках методом конечных элементов

Käerdi, Helmo; Poverus, Lembit Труды по строительной механике : сборник статей. 4 1972 / с. 25-32 : илл

https://www.ester.ee/record=b2190512*est <https://digikogu.taltech.ee/et/Item/954ba96d-4bb5-4802-9eed-3e9b89ea46ae>

Исследование распространения цилиндрических и сферических упругих и термоупругих волн в слоистых средах методом конечных элементов

Käerdi, Helmo; Poverus, Lembit Труды симпозиума "Нелинейные и тепловые эффекты при переходных волновых

процессах": [20-24 ноября 1973 г. Таллин]. Т. 2 1973 / с. 127-134 : ил https://www.ester.ee/record=b1581419*est

Исследование упругих волн в складчатых конструкциях методом трехмерных сеток и методом конечных элементов

Käerdi, Helmo; Poverus, Lembit Труды по строительной механике : сборник статей. 7 1976 / с. 47-55 : илл

https://www.ester.ee/record=b2190752*est <https://digikogu.taltech.ee/et/Item/f6a690f4-3c09-4e01-8a66-8a313dea9f38>

К вопросу исследования вычислительной эффективности метода конечных элементов в расчетах свободных колебаний упругих систем

Arjassov, Gennadi Тезисы международной конференции "Методы потенциала и конечных элементов в расчетах

современных инженерных конструкций" 1995 / 1 л

К расчету стержневых и пластинчатых систем методом конечных элементов : автореферат ... кандидата технических наук (01.002)

Vilipõld, Jüri 1970 http://www.ester.ee/record=b1380709*est

К расчету стержневых и пластинчатых систем методом конечных элементов : [работа выполнена на кафедре строительной механики ТПИ]

Vilipõld, Jüri 1970 http://www.ester.ee/record=b2253265*est

Комбинированное применение методов граничных и конечных элементов при решении задач дифракции акустических волн на оболочках

Aben, Madis; Lahe, Andres Тонкостенные пространственные конструкции 1989 / с. 63-72

Метод конечных элементов

Kioleiu, Indrek; Küttner, Rein 35 научная конференция студентов вузов Эстонии, Латвии, Литвы, Белоруссии и Молдовы :

[Таллинн, 1991] : доклады. Секция САПР в машиностроении [и др.] 1991 / с. 14-16

Метод конечных элементов в приложении к решению задачи оптимизации плоских рам

Jõgi, Emma; Korpeel, Peeter Теоретические и экспериментальные методы анализа оптимальных систем строительной

механики 1979 / с. 21-36 : илл https://www.ester.ee/record=b1276125*est <https://digikogu.taltech.ee/et/Item/0a4409c1-092d-4984-8380-f038658a044b>

Метод конечных элементов для исследования переходных волновых процессов

Käerdi, Helmo; Poverus, Lembit Труды по строительной механике : сборник статей. 5 1974 / с. 33-48 : илл

https://www.ester.ee/record=b2190653*est <https://digikogu.taltech.ee/et/Item/66202bf2-fa56-47cc-8d36-17e663cd263d>

Метод конечных элементов при математическом моделировании динамики железобетонных плит

Käerdi, Helmo Статические и динамические методы анализа пластин и оболочек 1984 / с. 43-50

Моделирование проявления горного давления на сланцевых шахтах методом конечных элементов

Undusk, Viktor Технология и комплексная механизация добычи горючих сланцев : научные сообщения 1989 / с. 34-40

https://www.ester.ee/record=b2750538*est

О точности метода конечных разностей

Jürgenson, Rein (informaatika) Исследования по теоретической физике и математике : [сборник статей] 1964 / с. 25-35

https://www.ester.ee/record=b1369246*est

Отыскание собственных частот и форм колебаний плоской рамы с жесткими и шарнирными узлами

Käes, Alar; Lahe, Andres XXX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской

ССР и Молдавской ССР, 8-10 апреля 1986 года : тезисы докладов. Том I, Общественные науки. Физико-математические

науки. Строительство. Экономика 1986 / с. 73 https://www.ester.ee/record=b1305540*est

Получение уравнений метода конечных элементов вариантом дискретно-вариационного метода

Vilipõld, Jüri Строительные конструкции и строительная физика : сборник статей. 8 1969 / с. 143-155 : илл

https://www.ester.ee/record=b2189905*est <https://digikogu.taltech.ee/et/Item/960fc807-dd3a-4277-a1e6-fcc6df9b9248/>

Приложение МКЭ для оптимизации рам и пластин

Jõgi, Emma; Koppel, Peer Тезисы докладов республиканской научной конференции "Тонкостенные и пространственные конструкции" : с 14 по 16 ноября 1978 года 1978 / с. 18-19 https://www.ester.ee/record=b1314933*est

Программа для прочностных расчетов по методу конечных элементов (МКЭ/20)

Vilipõld, Jüri; Kala, Tiina; Laurand, A.J. Тезисы докладов Всесоюзной конференции "Современные методы и алгоритмы расчета и проектирования строительных конструкций с использованием ЭВМ", Таллин, с 18 по 20 октября 1979 года. Часть вторая, [секция 3, Системы автоматизации проектирования. [Секция] 4, Проектирование оптимальных конструкций 1979 / с. 23-24 https://www.ester.ee/record=b1271175*est

Расчет контура висячего покрытия методом конечных элементов

Kasemets, Raivo Теория и расчет тонкостенных пространственных конструкций 1981 / с. 17-27 : илл https://www.ester.ee/record=b1327366*est <https://digikogu.taltech.ee/et/Item/b8a64145-8978-430f-9354-98a438d69a34>

Расчет предварительного напряжения вантовой сети висячего покрытия методом конечных элементов

Kasemets, Raivo Теория и расчет тонкостенных пространственных конструкций 1982 / с. 43-52 : илл https://www.ester.ee/record=b1511732*est <https://digikogu.taltech.ee/et/Item/6610f778-fa38-4a36-bdbc-9079c221ef25>

Расчет ребристых плит методом конечных элементов

Vilipõld, Jüri Труды по строительной механике : сборник статей. 3 1970 / с. 17-29 : илл https://www.ester.ee/record=b2189980*est <https://digikogu.taltech.ee/et/Item/cb50984d-414d-4d6b-bd3f-9e9456870054>

Решение задачи дифракции акустических волн методом конечных и граничных элементов

Lahe, Andres; Ross, Urmas Тонкостенные и пространственные конструкции 1988 / с. 35-43

Решение задачи продольно-поперечного изгиба балок за пределом упругости методом конечных элементов

Arjassov, Gennadi; Zubko, L.; Snitko, A. Исследования по динамике конструкций 1981 / с. 87-94 : илл https://www.ester.ee/record=b1309334*est <http://hdl.handle.net/10062/51177>

Решение некоторых задач статики в курсе теоретической механики методом конечных элементов

Ivanov, A.; Kološin, A.; Arjassov, Gennadi XXX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 8-10 апреля 1986 года : тезисы докладов. Том I, Общественные науки. Физико-математические науки. Строительство. Экономика 1986 / с. 54 https://www.ester.ee/record=b1305540*est