

**Additively manufactured spoke-type permanent magnet rotors : Solutions to multidisciplinary design challenges and comparison with traditional design**

Ajamloo, Akbar Mohammadi; **Tiismus, Hans; Kallaste, Ants**; Ibrahim, Mohamed N.; Sergeant, Peter IEEE transactions on energy conversion 2025 / 12 p. <http://doi.org/10.1109/TEC.2025.3619827> <https://ieeexplore.ieee.org/document/11197694>

**Analysis and study of the influence of the geometrical parameters of mini unmanned quad-rotor helicopters to optimise energy saving**

**Penkov, Igor; Aleksandrov, Dmitri** International journal of automotive and mechanical engineering 2017 / p. 4730-4746 : ill <https://doi.org/10.15282/ijame.14.4.2017.11.0372> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Broken rotor bar fault detection using machine learning: Optimal frequency resolution**

Koveshnikov, Semen; Bouharrouti, Nada El; **Kudelina, Karolina; Naseer, Muhammad Usman; Vaimann, Toomas**; Belahcen, Anouar 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p <https://doi.org/10.1109/ICEM60801.2024.10700228>

**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](#)

**Combined FE and two dimensional spectral analysis of broken cage faults in induction motors**

Martinez, Javier; **Belahcen, Anouar**; Arkkio, Antero Proceedings : IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Vienna, Austria, 10-14 November, 2013 2013 / p. 2674-2679 : ill <https://ieeexplore.ieee.org/document/6699553>

**Comparative study of inner and outer rotor bearingless synchronous reluctance motors**

Mukherjee, Victor; Sokolov, Maxim; Pippuri, Jenni; Hinkkanen, Marko; **Belahcen, Anouar** The journal of engineering 2019 / p. 4375–4379 <http://dx.doi.org/10.1049/joe.2018.8195>

**Comparison of synchronous reluctance machine and permanent magnet-assisted synchronous reluctance machine performance characteristics**

**Heidari, Hamidreza; Andriushchenko, Ekaterina; Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas; Demidova, Galina** 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 5 p. : ill <https://doi.org/10.1109/IWED48848.2020.9069583>

**Contrôle Multirate des Drones Multirotors Autonomes: Modélisation et Simulation**

**Astrov, Igor** 2023 [Contrôle Multirate des Drones Multirotors Autonomes: Modélisation et Simulation](#)

**Controllo multirate di droni multirotori autonomi : modellazione e simulazione**

**Astrov, Igor** 2023 [Controllo Multirate di Droni Multirotori Autonomi: Modellazione e Simulazione](#)

**Controlo Multirate de Drones Multirotor Autónomos: Modelação e Simulação**

**Astrov, Igor** 2023 [Controlo Multirate de Drones Multirotor Autónomos: Modelação e Simulação](#)

**Design of rotors for synchronous reluctance motor : analytical treatment and optimization**

Orlova, Svetlana; Pugachov, Vladislav; **Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas** 2019 21st European Conference on Power Electronics and Applications (EPE '19 ECCE Europe), 3-5 Sept. 2019, Genova, Italy : proceedings 2019 / 9 p. : ill <https://doi.org/10.23919/EPE.2019.8914760>

**Detection of broken rotor bars in three-phase squirrel-cage induction motor using fast Fourier transform**

**Vaimann, Toomas; Kallaste, Ants** 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 2011 / p. 52-56 : ill

**Diagnostics of induction machine rotor faults using analysis of stator signals = Asünkroonmasina rootori diagnostika staatorisignaali uurimise meetodil**

**Vaimann, Toomas** 2014 [https://www.ester.ee/record=b4376858\\*est](https://www.ester.ee/record=b4376858*est)

**Direct conductor cooling of outer-rotor machine enabled by additive manufacturing**

**Sarap, Martin; Kallaste, Ants; Shams Ghahfarokhi, Payam; Tiismus, Hans; Vaimann, Toomas** 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 4 p <https://doi.org/10.1109/IEMDC55163.2023.10238858>

**Doktoritöö: 3D-printimine avab elektrimasinate ehitamisel uue horisondi [Võrguväljaanne]**

Alvela, Ain novaator.err.ee 2022 [Doktoritöö: 3D-printimine avab elektrimasinate ehitamisel uue horisondi](#) <https://digikogu.taltech.ee/et/Item/1a6cde04-f268-42c1-95d7-b9a43dd70046>

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

Rasilo, Paavo; **Belahcen, Anouar**; Arkkio, Antero Proceedings : 2012 XXth International Conference on Electrical Machines : Palais

des Congrès et des Expositions de Marseille Marseille, France, 02-05 September, 2012 / p. 1282-1286 : ill  
<https://ieeexplore.ieee.org/document/6350042>

#### **Efficiency optimization of mini unmanned multicopter**

**Penkov, Igor; Aleksandrov, Dmitri** International review of aerospace engineering 2017 / p. 277-281 : ill  
<https://doi.org/10.15866/irease.v10i5.12132> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Encoderless rotor position estimation of a switched reluctance drive operated under model predictive control**

Anuchin, Aleksey; Shpak, Dmitry; **Demidova, Galina** 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020  
<https://doi.org/10.1109/RTUCON51174.2020.9316621>

#### **Energy consumption of mini UAV helicopters with different number of rotors**

**Aleksandrov, Dmitri; Penkov, Igor** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 / p. 259-262 : ill

#### **Flight control of TUAV with coaxial rotor and ducted fan configuration by NARMA-L2 controllers for enhanced situational awareness**

**Astrov, Igor; Pedai, Andrus; Gordon, Boris** World Academy of Science, Engineering and Technology 2012 / p. 75-81 : ill  
<https://publications.waset.org/13553/flight-control-of-tuav-with-coaxial-rotor-and-ducted-fan-configuration-by-narma-l2-controllers-for-enhanced-situational-awareness>

#### **Flight control of TUAV with coaxial rotor and ducted fan configuration by NARMA-L2 controllers for enhanced situational awareness [Electronic resource]**

**Astrov, Igor; Pedai, Andrus; Gordon, Boris** ICCEA 2012 CD-ROM Proceedings : [International Conference on Computer Engineering and Applications (ICCEA 2012) : Copenhagen, Denmark, June 11-12, 2012] 2012 / p. 75-81 : ill [CD-ROM]  
<https://publications.waset.org/13553/flight-control-of-tuav-with-coaxial-rotor-and-ducted-fan-configuration-by-narma-l2-controllers-for-enhanced-situational-awareness>

#### **Generation of unmeasured loading levels data for condition monitoring of induction machine using machine learning**

Billah, Md Masum; Saberi, Alireza Nemat; Hemeida, Ahmed; Martin, Florian; **Kudelina, Karolina; Asad, Bilal; Naseer, Muhammad Usman**; Mukherjee, Victor; Belahcen, Anouar IEEE transactions on magnetics 2024 / art. 8201104  
<https://doi.org/10.1109/TMAG.2023.3312267> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Generator mode analysis of exterior-rotor PM synchronous machine with Gramme's winding**

**Nukki, Rene; Kilk, Aleksander; Kallaste, Ants; Vaimann, Toomas; Tiimus, Kristjan** 2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : proceedings : May 11-13, 2015, Riga, Latvia 2015 / p. 347-352 : ill  
<http://dx.doi.org/10.1109/PowerEng.2015.7266341>

#### **Heterocomponent ternary supramolecular complexes of porphyrins : a review**

**Prigorchenko, Elena; Ustrnul, Lukas; Borovkov, Victor; Aav, Riina** Porphyrin Science by Women. Volume 3: Materials, Sensors, Energy and Catalysis 2021 / p. 816-833 [https://doi.org/10.1142/9789811223556\\_0071](https://doi.org/10.1142/9789811223556_0071)

#### **Hilbert transform, an effective replacement of Park's vector modulus for the detection of rotor faults**

**Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Rassõlkin, Anton; Belahcen, Anouar** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818227>

#### **Homogenization technique for axially laminated rotors of synchronous reluctance machines**

Martin, Florian; **Belahcen, Anouar**; Lehtikoinen, Antti; Rasilo, Paavo IEEE transactions on magnetics 2015 / [6] p. : ill  
<http://dx.doi.org/10.1109/TMAG.2015.2463262>

#### **Imbalance control of a disintegrator's rotor**

**Tamm, Boris, inform.; Tümanok, Aleksei** IFAC MMM 95 : The 8th IFAC International Symposium on Automation in Mining, Mineral and Metal Processing, Sun City, South Africa, 29 to 31 August, 1995 : preprints 1995 / p. 173-177: ill  
<https://www.sciencedirect.com/science/article/pii/S1474667017467656>

#### **The impact of control environments on global parameters of electrical machines in case of broken rotor bars**

**Kudelina, Karolina; Raja, Hadi Ashraf; Autso, Siarhei; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants** Diagnostika '22 : 2022 International Conference on Diagnostics in Electrical Engineering : Conference proceedings 2022 / 4 p.  
<https://doi.org/10.1109/Diagnostika55131.2022.9905149>

#### **Impact of faults and different operating conditions on current parameters in case of broken rotor bars**

**Kudelina, Karolina** 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 / p. 41-42 : ill [https://www.eester.ee/record=b5504019\\*est](https://www.eester.ee/record=b5504019*est)

#### **The impact of load on global parameters of electrical machines in case of healthy and broken rotor bars**

**Kudelina, Karolina; Raja, Hadi Ashraf; Autso, Siarhei; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants**;

**Shabbir, Noman** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 5 I. <https://doi.org/10.1109/BEC56180.2022.9935614>

#### **Implementation of different magnetic materials in outer rotor PM generator**

**Kudrjavitsev, Oleg; Kilk, Aleksander; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants** 2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : proceedings : May 11-13, 2015, Riga, Latvia 2015 / p. 74-78 : ill <http://dx.doi.org/10.1109/PowerEng.2015.7266298>

#### **Improved diagnostic approach for BRB detection and classification in inverter-driven induction motors employing sparse stacked autoencoder (SSAE) and lightGBM**

**Khan, Muhammad Amir; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants** Electronics (Switzerland) 2024 / art. 1292 <https://doi.org/10.3390/electronics13071292> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Increasing of power characteristics of mini UAV helicopter by changing of its geometrical parameters**

**Aleksandrov, Dmitri; Penkov, Igor** Machines, technologies, materials : [virtual journal] 2012 / p. 30-32 : ill <http://trans-motauto.com/sbornik/2012/22.INCREASING%20OF%20POWER%20CHARACTERISTICS%20OF%20MINI%20UAV%20HELICOPTER%20BY%20CHANGING%20OF%20ITS%20GEOMETRICAL%20PARAMETERS.pdf>

#### **Influence of magnet material selection on the design of slow-speed permanent magnet synchronous generators for wind applications**

**Kallaste, Ants; Vaimann, Toomas; Belahcen, Anouar** Elektronika ir elektrotehnika = Electronics and electrical engineering 2017 / p. 31-38 : ill <https://doi.org/10.5755/j01.eie.23.1.17581> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Influence of wedge material on losses of a traction motor with tooth-coil windings**

**Lindh, Pia; Pyrhönen, Juha; Ponomarev, P.; Vinnikov, Dmitri** Proceedings IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 2941-2946 : ill <https://doi.org/10.1109/IECON.2013.6699598> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Light-weight multicopter structural design for energy saving = Kerglassi multikopteri energiatarbe vähendamise konstruktsioonilised lahendused**

**Aleksandrov, Dmitri** 2013 [http://www.ester.ee/record=b2994326\\*est](http://www.ester.ee/record=b2994326*est)

#### **Magnetic equivalent circuit and Lagrange interpolation function modeling of induction machines under broken bar faults**

**Hemeida, Ahmed; Billah, Md Masum; Kudelina, Karolina; Asad, Bilal; Naseer, Muhammad Usman; Guo, Baocheng; Martin, Floran; Rasilo, Paavo; Belahcen, Anouar** IEEE transactions on magnetics 2024 / art. 8200704, 4 p <https://doi.org/10.1109/TMAG.2023.3306207> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Mathematical modelling of solid rotor induction motor**

**Leoste, Margus; Jokinen, Tapani** 35 научная конференция студентов вузов Эстонии, Латвии, Литвы, Белоруссии и Молдовы : [Таллинн, 1991] : доклады. Секция электромеханики. Секция электроэнергетики 1991 / с. 7-10: ил

#### **Modified winding function analysis of synchronous reluctance motor for design iteration purposes : [journal article]**

**Naseer, Muhammad Usman; Kallaste, Ants; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton** IEEE transactions on magnetics 2022 / art. 7500704 <https://doi.org/10.1109/TMAG.2022.3164189> [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; Rassõlkin, 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](#)

#### **Modular multi-rotor helicopter platforms**

**Tiimus, Kristjan; Tamre, Mart** Mechatronic systems and materials VI 2015 / p. 110-115 : ill <https://doi.org/10.4028/www.scientific.net/SSP.220-221.110> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Modular multi-rotor helicopter platforms**

**Tiimus, Kristjan; Tamre, Mart** The 9th International Conference Mechatronics Systems and Materials : MSM-2013 : abstracts 2013 / p. 242-243 : ill

#### **Multirate-Steuerung von Autonomen Multirotor-Drohnen : Modellierung und Simulation**

**Astrov, Igor** 2023 <https://www.amazon.com.au/Multirate-Steuerung-von-autonomen-Multirotor-Drohnen-Modellierung/dp/6206026779>

#### **Multi-sensor fault diagnosis of induction motors using random forests and support vector machine**

**Saberi, Alireza Nemat; Sandirasegaram, Sarvavignoban; Belahcen, Anouar; Vaimann, Toomas; Sobra, Jan** 2020 International Conference on Electrical Machines (ICEM), 23-26 august 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 1404-1410 <https://doi.org/10.1109/ICEM49940.2020.9270689>

### **On inner friction factor of fine powders**

**Tamm, Jaan; Tadolder, Jüri** OST-96 Symposium on Machine Design, [Stockholm], May 13-14, 1996 : proceedings 1996 / p. 58-65: ill [https://www.ester.ee/record=b1033950\\*est](https://www.ester.ee/record=b1033950*est)

### **Optimal gap distance between rotors of mini quadrotor helicopter**

**Aleksandrov, Dmitri; Penkov, Igor** Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 1 2012 / p. 251-255 : ill

### **Optimization mini unmanned helicopter energy consumption by changing geometrical parameters of coaxial rotor pairs**

**Aleksandrov, Dmitri; Penkov, Igor** 12th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Kuressaare, Estonia, June 11-16, 2012 2012 / p. 139-141 : ill

### **Optimization of lift force of mini quadrotor helicopter by changing of gap size between rotors**

**Aleksandrov, Dmitri; Penkov, Igor** Mechatronic systems and materials IV 2013 / p. 226-231 : ill  
<https://doi.org/10.4028/www.scientific.net/SSP.198.226> [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article collection metrics at WOS](#) [Article at WOS](#)

### **A parallel estimation system of stator resistance and rotor speed for active disturbance rejection control of six-phase induction motor**

**Heidari, Hamidreza; Rassölkin, Anton;** Holakooie, Mohammad Hosein; **Vaimann, Toomas; Kallaste, Ants; Belahcen, Anouar;** Lukichev, Dmitry Energies 2020 / 17 p <https://doi.org/10.3390/en13051121> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Park's vector approach for detection of broken rotor bars in frequency converter fed induced generator**

**Vaimann, Toomas; Belahcen, Anouar;** Martinez, Javier; **Kilk, Aleksander** Proceedings of the 13th International Scientific Conference Electric Power Engineering 2012 : EPE 2012 : Brno. Vol. 2 2012 / p. 985-988 : ill  
[https://www.academia.edu/17399045/Parks\\_Vector\\_Approach\\_for\\_Detection\\_Broken\\_Rotor\\_Bars\\_in\\_Frequency\\_Converter\\_Fed\\_Induction\\_Generator](https://www.academia.edu/17399045/Parks_Vector_Approach_for_Detection_Broken_Rotor_Bars_in_Frequency_Converter_Fed_Induction_Generator)

### **Preliminary analysis of global parameters of induction machine for fault prediction in rotor bars**

**Kudelina, Karolina; Raja, Hadi Ashraf; Autso, Siarhei; Asad, Bilal; Vaimann, Toomas; Rassölkin, Anton; Kallaste, Ants** 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 243-248 : ill <https://doi.org/10.1109/PEMC51159.2022.9962922>

### **The PWM command of two-phase double rotor induction machine**

**Atudorei, Irina; Gogu, Mircea; Teodoru, Emil Costel** BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 297-300: ill

### **Rotor lifting force optimization by changing dimensions of rim around it**

**Aleksandrov, Dmitri; Penkov, Igor** 13th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 14-19, 2013 2013 / p. 292-295 : ill

### **Sensorless detection of induction motor faults using the clarke vector approach**

**Vaimann, Toomas; Kallaste, Ants; Kilk, Aleksander** Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2011 / p. 43-48 : ill  
[https://www.researchgate.net/publication/258547195\\_Sensorless\\_Detection\\_of\\_Induction\\_Motor\\_Rotor\\_Faults\\_Using\\_the\\_Clarke\\_Vector\\_Approach](https://www.researchgate.net/publication/258547195_Sensorless_Detection_of_Induction_Motor_Rotor_Faults_Using_the_Clarke_Vector_Approach)

### **Single-Rate versus Three-Rate Neural Assisted Control Approaches for Coaxial Rotor Ducted Fan TUAV for Situation Awareness Applications**

**Pedai, Andrus; Astrov, Igor; Udal, Andres; Sell, Raivo** 2019 IEEE International Systems Conference (SysCon 2019), Orlando, FL, USA, April 8-11, 2019 2019 / p. 457-463 : ill <https://doi.org/10.1109/SYSCON.2019.8836871>

### **Situational awareness based neural flight control of a coaxial rotor/ducted-fan helicopter**

**Astrov, Igor; Pikkov, Mihhail; Paluoja, Rein** Recent advances in systems science : proceedings of the 17th International Conference on Systems (part of CCCC '13) : Rhodes Island, Greece, July 16-19, 2013 2013 / p. 54-59 : ill

### **Stator voltage analysis of frequency converter fed induction generator with broken rotor bars**

**Vaimann, Toomas; Belahcen, Anouar;** Martinez, Javier; **Kilk, Aleksander** 13th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 14-19, 2013 2013 / p. 249-251 : ill

### **A study of erosion of rotary compressor fans and devices**

**Kleis, Ilmar; Uuemõis, Haljand** Proceedings of the Fifth International Conference on Erosion by Liquid and Solid Impact : Newnham College, Cambridge, UK, 3 - 6 September 1979 1979

### **Synthetic Data-Driven Detection of Broken Rotor Bars in Induction Machines Under Adjusted Noise Level**

Nuha, Nurjahan Amin; Siddik Injam, Md Tanbir; El Bouharrouti, Nada; Hemeida, Ahmed; Kudelina, Karolina; Naseer, Muhammad Usman; Belahcen, Anouar 2025 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) 2025 / 6 p <https://doi.org/10.1109/WEMDCD61816.2025.11014141>

### **Three-rate neural control of UAV with coaxial rotor and ducted fan configuration for enhanced situational awareness**

Astrov, Igor; Pedai, Andrus 2012 International Conference on Control, Automation and Information Sciences (ICCAIS) : [Ho Chi Minh City, Vietnam, November 26-29, 2012 : proceedings] 2012 / p. 78-83 : ill <https://ieeexplore.ieee.org/document/6466634>

### **Tribocharacteristics of journal bearings of rotating systems with unlocated axis**

Ajaots, Mairo; Tamre, Mart OST-94 Symposium on Machine Design : proceedings, Tallinn, Estonia, April 14-15, 1994 1994 / p. 62-71 : ill [https://www.ester.ee/record=b1033948\\*est](https://www.ester.ee/record=b1033948*est)

### **Two-rate neural control of UAV with coaxial rotor and ducted fan configuration for enhanced situational awareness**

Astrov, Igor; Pedai, Andrus; Gordon, Boris Proceedings of 9th International Conference 2012 ELEKTRO : May 21 - 22, 2012, Žilina-Rajecké Teplice, Slovakia 2012 / p. 159-164 : ill <https://ieeexplore.ieee.org/document/6225630>

### **Uncertainty quantification of input parameters in a 2D finite-element model for broken rotor bar in an induction machine**

Billah, Md Masum; Martin, Florian; Belahcen, Anouar; Balasubramanian, Aswin; Vaimann, Toomas; Sobra, Jan IEEE transactions on magnetism 2022 / art. 8205804 <https://doi.org/10.1109/TMAG.2022.3173663> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Using analysis of stator current for squirrel-cage induction motor rotor faults diagnostics**

Vaimann, Toomas; Kallaste, Ants; Kilk, Aleksander Electrical and Control Technologies : Proceedings of the 6th International Conference on Electrical and Control Technologies (ECT-2011), May 5-6, 2011, Kaunas, Lithuania 2011 / p. 245-250 : ill

### **Using Clarke vector approach for stator current and voltage analysis on induction motors with broken rotor bars**

Vaimann, Toomas; Kallaste, Ants; Kilk, Aleksander Elektronika ir elektrotehnika = Electronics and electrical engineering 2012 / p. 17-20 : ill

### **Абразивность промышленных пылей при износе роторов ЦКМ**

Kleis, Ilmar; Tadolder, Jüri; Mägi, Rein Энергомашиностроение : ежемесячный научно-технический и производственный журнал 1983 / с. 32-34 : ил [https://www.ester.ee/record=b2253960\\*est](https://www.ester.ee/record=b2253960*est)

### **Крутильные колебания вала дезинтегратора**

Kangur, Hillar; Tekkel, M.; Tümanok, Aleksei; Pikand, P. Тезисы докладов XXXI студенческой научно-технической конференции 1980 / с. 47-48 [https://www.ester.ee/record=b1319482\\*est](https://www.ester.ee/record=b1319482*est)

### **Многоскоростное управление автономными мультироторными дронами : моделирование и имитация**

Astrov, Igor 2023 <https://tinyurl.com/2c59zavm>

### **Моделирование изнашивания ротора ЦКМ**

Mägi, Rein; Tadolder, Jüri Tallinna Tehnikaülikooli Toimetised 1991 / lk. 30-41: ill

### **Некоторые параметры роторно-поршневого двигателя с криволинейными кромками трехгранного ротора**

Mäeküla, Oskar Судовые силовые установки : сборник статей. 5 1969 / с. 11-19 : илл [https://www.ester.ee/record=b2189949\\*est](https://www.ester.ee/record=b2189949*est) <https://digikogu.taltech.ee/et/Item/87c22f18-f4eb-4229-b2dd-f0ec3b75d618>

### **Новые магнитомягкие материалы для производства статоров и роторов электродвигателей переменного тока**

Laansoo, Andres; Ritso, Aadu; Siimar, Rein; Liimann, Väino Обмен производственно-техническим опытом 1987 / с. 12-18

### **О геометрии печатного ротора торцевого синхронного двигателя**

Vagane, Valdur; Samolevski, Georg Электромеханика. 2 1968 / с. 3-8 : илл [https://www.ester.ee/record=b2182203\\*est](https://www.ester.ee/record=b2182203*est) <https://digikogu.taltech.ee/et/Item/69de9df9-2016-4e43-bbf8-2fe1fcc13791/>

### **О движении материальной частицы в многоступенчатом роторном помольном агрегате**

Tümanok, Aleksei Математика и теоретическая механика : сборник статей. 8 1975 / с. 37-46 : илл [https://www.ester.ee/record=b2190679\\*est](https://www.ester.ee/record=b2190679*est) <https://digikogu.taltech.ee/et/Item/b3290b73-29b8-411f-8db3-1bda78623e40>

### **О создании методики по определению абразивности пыли применительно к роторам ЦКМ**

Kleis, Ilmar; Mägi, Rein Трение и износ в машинах : сборник статей. 11 1981 / с. 3-12 : илл [https://www.ester.ee/record=b2191149\\*est](https://www.ester.ee/record=b2191149*est) <https://digikogu.taltech.ee/et/Item/983b9430-cae0-4a0d-a83d-ddb843ffcae>

### **О схеме замещения торцевого асинхронного двигателя с немагнитным ротором**

Vares, N.; Samolevski, Georg Электромеханика. 2 1968 / с. 21-27 : илл [https://www.ester.ee/record=b2182203\\*est](https://www.ester.ee/record=b2182203*est) <https://digikogu.taltech.ee/et/Item/69de9df9-2016-4e43-bbf8-2fe1fcc13791/>

#### **Об остаточной неуравновешенности при автоматическом уравнивании роторов**

**Tümanok, Aleksei** Математика и теоретическая механика : сборник статей. 9 1976 / с. 139-147 : илл

[https://www.ester.ee/record=b2190747\\*est](https://www.ester.ee/record=b2190747*est) <https://digikogu.taltech.ee/et/Item/a9fec951-ad1f-4ea0-91d9-9e641b529311>

#### **Определение распределения линейного износа по лопасти ротора ЦКМ**

**Mägi, Rein; Tadolder, Jüri** Tallinna Tehnikaülikooli Toimetised 1991 / lk. 42-49: ill

#### **Повышение долговечности деталей роторов дезинтегратора**

**Vainu, Jaan; Halling, Jaanus; Arro, A.; Kulu, Priit** X Юбилейный всесоюзный симпозиум по механоэмиссии и механохимии твердых тел (24-26 сент. 1986 г., г. Ростов н/Д) : Тезисы докладов 1986 / с. 189-190

#### **Повышение стойкости лопаток роторов аглоэкстауреров**

**Kleis, Ilmar; Ruffanov, J.; Tadolder, Jüri** Металлургическая и горнорудная промышленность : Научно-технический сборник 1976 / с. 86-87

#### **Расчет пульсации момента асинхронного электродвигателя с выпрямительным мостом в цепи ротора**

**Sepping, Eino** Электричество : ежемесячный теоретический и научно-практический журнал 1974 / с. 9-12 : илл

[https://www.ester.ee/record=b2160063\\*est](https://www.ester.ee/record=b2160063*est)

#### **Течение Куэтта**

**Kaldjärv, K.; Merisalu, Tiit** Тезисы докладов XXXI студенческой научно-технической конференции 1980 / с. 41-42

[https://www.ester.ee/record=b1319482\\*est](https://www.ester.ee/record=b1319482*est)

#### **Универсальный стенд для испытаний роторов микроэлектродвигателей**

**Varik, J.; Ritso, Aadu; Randmer, Uudus** Машиностроение и строительство : XVI студенческая научно-техническая конференция вузов Прибалтики, Белорусской ССР и Калининградской области, посвященная 100-летию со дня рождения В. И. Ленина : 20-25 апреля 1970 г. : (тезисы докладов) 1970 / с. 25-26 [https://www.ester.ee/record=b1379481\\*est](https://www.ester.ee/record=b1379481*est)

#### **Характер изнашивания роторов ЦКМ и прогнозирование его интенсивности**

**Kleis, Ilmar; Tadolder, Jüri; Mägi, Rein** Энергомашиностроение : ежемесячный научно-технический и производственный журнал 1984 / с. 8-11 [https://www.ester.ee/record=b2253960\\*est](https://www.ester.ee/record=b2253960*est)

#### **Характер изнашивания роторов ЦКМ и прогнозирования его интенсивности**

**Kleis, Ilmar; Tadolder, Jüri; Mägi, Rein** Энергомашиностроение : ежемесячный научно-технический и производственный журнал 1984 / с. 8-11 [https://www.ester.ee/record=b2253960\\*est](https://www.ester.ee/record=b2253960*est)