

UNIVERSITATEA PETROL - GAZE DIN PLOIEȘTI
FACULTATEA DE INGINERIE MECANICĂ ȘI ELECTRICĂ
DEPARTAMENTUL DE INGINERIE MECANICĂ
Examen de promovare în cariera didactică pe postul de conferențiar, poz. 18
Disciplinele postului: Mecanică, Mecanică 1, Mecanică 2
Domeniul: INGINERIE MECANICĂ, MECATRONICĂ ȘI ROBOTICĂ

LISTA DE LUCRĂRI

C a n d i d a t : Ș e f l u c r . d r . i n g . T ă n a s e M a r i a

Teza de doctorat

Studii și cercetări privind instabilitatea învelișurilor cilindrice subțiri cu aplicare la silozurile metalice

Cărți/capitole cărți

1. A. H. Popa, A. Pupăzescu, **M. Tănase**, Lucrări experimentale de mecanică, Editura Universității Petrol-Gaze, Ploiești, 2017
2. Niculae Claudia, **Tănase Maria**, Aspects regarding the drawworks of the drilling rig, LAP Lambert Academic Publishing, 2019
3. **Maria Tanase**, ELEMENTS OF THEORETICAL MECHANICS, LAP LAMBERT Academic Publishing, 164 pag, 2020
4. **MARIA TĂNASE**, MECANICĂ TEORETICĂ. NOTE DE CURS ȘI APLICAȚII, Editura Universității Petrol-Gaze din Ploiești 2021, ISBN 978-973-719-818-1
5. Costin Ilinca, **Maria Tanase**, Structures assessment by using the numerical analysis. Case studies, LAP LAMBERT Academic Publishing, Germany, 2021, 196 pag
6. Marius Gabriel Petrescu, Costin Ilincă, **Maria Tănase**, Hailong Fu, Management of Industrial Technologies, Mechanical and Industrial Engineering pp 179-210, Springer, 2022
7. **MARIA TĂNASE**, IULIAN PĂȚÎRNAC, APLICAȚII DE MECANICĂ TEORETICĂ. Statica, Editura Universității Petrol-Gaze din Ploiești 2022, ISBN 978-973-719-855-6 (93 pag)
8. **MARIA TĂNASE**, IULIAN PĂȚÎRNAC, APLICAȚII DE MECANICĂ TEORETICĂ. Cinematica și dinamica, Editura Universității Petrol-Gaze din Ploiești 2022, ISBN 978-973-719-864-8 (109 pag)
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10. Costin ILINCĂ, Alin DINIȚĂ, Ibrahim RAMADAN, **Maria TĂNASE**, PROCESS PIPES ASSESSMENT Evaluation of process pipes subjected to internal pressure and temperature through numerical and experimental analysis, LAP LAMBERT Academic Publishing, Germany, 2022, ISBN, 9 7 8 6 2 0 5 5 1 3 1 9 4
11. Petrescu, M.G.; Neacșa, A.; Laudacescu, E.; **Tănase, M.** Energy in the Era of Industry 5.0—Opportunities and Risks. In *Industry 5.0: Creative and Innovative Organizations*; Springer International Publishing: Cham, Switzerland, 2023; pp. 71–90.
12. Petrescu, M.G., **Tănase, M.** and Dumitru, T. (2024), "Sustainable Technologies for Road Maintenance and Rehabilitation", Crowther, D. and Seifi, S. (Ed.) *Social Responsibility, Technology and AI (Developments in Corporate Governance and Responsibility, Vol. 23)*, Emerald Publishing Limited, Leeds, pp. 3-28. <https://doi.org/10.1108/S2043-052320240000023001>

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2. Lvov, G.; **Tănase, M.** Numerical Modeling of Plasticity in Metal Matrix Fiber Composites. *Applied Sciences* 2024, 14, 8679, doi:[10.3390/app14198679](https://doi.org/10.3390/app14198679).
3. **Tănase, M.** A Comprehensive Synthesis on Analytical Algorithms for Assessing Elastic Buckling Loads of Thin-Walled Isotropic and Laminated Cylindrical Shells. *Processes* 2024, 12, 2120, doi:[10.3390/pr12102120](https://doi.org/10.3390/pr12102120).
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5. Pățirnac, I.; Ripeanu, R.G.; **Tănase, M.** Computational Fluid Dynamics Analysis of Erosion in Active Components of Abrasive Water Jet Machine. *Processes* 2024, 12, 1860, doi:10.3390/pr12091860.
6. Pățirnac, I.; Ripeanu, R.G.; Popescu, C.; **Tănase, M.** Analysis of Water Flow through the Active Parts of an Abrasive Water Jet Machine: A Combined Analytical and CFD Approach. *Processes* 2024, 12, 1551, doi:10.3390/pr12081551.
7. Petrescu, M.G.; Dumitru, T.; Laudacescu, E.; **Tănase, M.** Experimental Investigation and Numerical Analysis Regarding the Influence of Cutting Parameters on the Asphalt Milling Process. *Materials* 2024, 17, 3475, doi:10.3390/ma17143475.
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10. Portoaca A; **Tanase M**, Exploring Shore D Hardness Variations Under Different Printing Conditions and Post-Processing Treatments. *JJMIE* 2024, 18, 421–429, doi:10.59038/jjmie/180214.
11. Petrescu, M.G.; Burlacu, A.; Isbăşoiu, G.D.; Dumitru, T.; **Tănase, M**. Estimating the Lifetime of Rotary Dryer Flights Based on Experimental Data. *Processes* 2024, 12, 993, doi:10.3390/pr12050993.
12. Portoacă, A.-I.; Diniţă, A.; **Tănase, M.**; Săvulescu, A.; Sirbu, E.-E.; Călin, C.; Brănoiu, G. Analyzing Sustainable 3D Printing Processes: Mechanical, Thermal, and Crystallographic Insights. *Polymers* 2024, 16, 1364, doi:10.3390/polym16101364.
13. Petrescu, M.G.; Popovici, A.-I.; Niţă, A.; Isbăşoiu, D.; Dumitru, T.; **Tănase, M**. Modelling Wear Phenomena Specific to Mixer Blades in Concrete Production Plants. *Applied Sciences* 2024, 14, 3988, doi:10.3390/app14103988.
14. Razvan George Ripeanu, Alin Dinita, **Maria Tanase**, Alexandra Ileana Portoaca Experimental Investigation on Corrosion Resistance and Tribological Properties of Steel Coated with Glass-Reinforced Polymer. 2024, doi:https://doi.org/10.46793/tribomat.2024.010.
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29. Burlacu, A.; Petrescu, M.G.; Dumitru, T.; Niță, A.; **Tănase, M.**; Laudacescu, E.; Ramadan, I.; Ilincă, C. Numerical Approach Regarding the Effect of the Flight Shape on the Performance of Rotary Dryers from Asphalt Plants. *Processes* 2022, 10, 2339, doi:10.3390/pr10112339.
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39. **Tănase, M.**; Portoacă, A.I.; Gabor, M.R.; Veres, C. Integrated Analytical, Numerical, and Statistical Analysis of Buckling Behavior in Steel Cylindrical Silos with Corrugated Walls. Processes 2024, 12, 2443, doi:10.3390/pr12112443.
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5. Ilincă Costin, **Tănase Maria**, ANALYSIS OF STRESS STATE IN THE CASE OF STRUCTURAL TYPE ELEMENTS RELATED TO THE FIXED DOME TANK ROOF, 5th International AFRICAN CONFERENCE On Current Studies of Science, Technology & Social Sciences, February 2-5, 2022 Cairo, Egypt

6. Costin ILINCĂ, **Maria TĂNASE**, THE INFLUENCE OF WELDING JOINT DEFECTS ON THE BOTTOM-SHELL JUNCTION FOR A VERTICAL CYLINDRICAL STORAGE TANK, International Antalya Scientific Research and Innovative Studies Congress, 18-21 December 2021

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