

D – ANALIZĂ TEORETICĂ ȘI EXPERIMENTALĂ ECHIPAMENTE, SISTEME ȘI TEHNOLOGII

D – THEORETICAL AND EXPERIMENTAL ANALYSIS ON EQUIPMENT, SYSTEMS AND TECHNOLOGIES

- **Theoretical and experimental research regarding the dynamic behaviour of linear hydraulic motors**

Corneliu Cristescu, Petrin Drumea, Dragos Ion Guta, Catalin Dumitrescu, Petrica Krevey
In: Hidraulica no. 1-2/ 2011, pp. 19-34

- **Constructive and functional improvement of plane distribution for the axial pistons pumps with tilt block at 40°**

Ionel Dinu, Petru Breaz, Gheorghe Zamfir
In: Hidraulica no. 1-2/ 2011, pp. 45-59

- **Experimental research regarding the dynamic behavior of linear hydraulic motors in frequency domain**

Corneliu Cristescu, Petrin Drumea, Dragos Ion Guta, Catalin Dumitrescu, Petrica Krevey
In: Hidraulica no. 3-4/ 2011, pp. 35-46

- **High bearing mechanical structures made of thin wall steel profile using innovative solutions in the field of hydraulics and resistance calculation methodology**

Gabriela Matache, Ionel Nita, Alexandra Visan, Adrian Pantiru
In: Hidraulica no. 3-4/ 2011, pp. 75-80

- **The hydraulic drive – a solution for the machines bending big size profiles**

Florin Georgescu, Ionel Nita, Genoveva Vranceanu
In: Hidraulica no. 1-2/ 2012, pp. 55-60

- **Compact system for upper roll drive from bending profiles pyramidal machine**

Niculae Ionita, Liliana Dumitrescu
In: Hidraulica no. 1-2/ 2012, pp. 62-66

- **Experimental results regarding rotational speed of the alternating flow driven hydraulic motors with a star interconnection of the working volumes**

Ioan-Lucian Marcu, Daniel- Vasile Banyai, Claudia Kozma, Gabriela Matache
In: Hidraulica no. 3-4/ 2012, pp. 22-27

- **Numerical simulation of the servo mechanism for adjusting the capacity of the radial piston pumps**

Liliana Dumitrescu, Cătălin Dumitrescu, Ioan Lepădatu
In: Hidraulica no. 3-4/ 2012, pp. 28-33

- **Synthesis of main characteristics and common schemes used in structuring of hydraulic sources**

Radu Radoi, Catalin Dumitrescu, Iulian Dutu, Gabriela Matache
In: Hidraulica no. 3-4/ 2012, pp. 61-66

- **The modernization of the MAC – 3 machines from the substitution of the mechanism of the pressing room**

David Ladislau, Dinu Ion

In: Hidraulica no. 3-4/ 2012, pp. 67-72

- **Improvements in hydraulic impact mechanisms controlled by rotatable distributors**

Claudia Kozma, Liviu Vaida

In: Hidraulica no. 1/ 2013, pp. 19-26

- **Modeling of a three way rotatable fluid distributor used to command and control a hydraulic rock drill**

Claudia Kozma, Banyai Daniel Vasile

In: Hidraulica no. 1/ 2013, pp. 42-51

- **Theoretical considerations regarding the mechanism for adjusting the capacity of the pumps with radial pistons**

Lepadatu Ioan, Dumitrescu Catalin

In: Hidraulica no. 1/ 2013, pp. 70-78

- **Virtual instrument for plotting servo-valves characteristics after significant maintenance operations**

Radu Rădoi, Iulian Duțu

In: Hidraulica no. 1/ 2013, pp. 86-89

- **The influence of angle of tilt of the separators and the air course velocity about qualitative coefficient and the exploitation at the cleaning and sorting of the corn pulses**

Constantin Popa, Mihaela-Florentina Duțu, Iulian Duțu

In: Hidraulica no. 1/ 2013, pp. 90-96

- **Adaptive robust control applicable on variable pumps**

Daniel Vasile Banyai, Ioan-Lucian Marcu

In: Hidraulica no. 2/ 2013, pp. 16-24

- **Amplitudes influence on the process of separation a grain selector**

Stoica Dorel

In: Hidraulica no. 2/ 2013, pp. 96-102

- **Electrohydraulic servomechanism for driving the reels of coil winding machines specific to wire rolling mills**

Teodor Costinel Popescu, Marian Blejan, Ioan Lepădatu

In: Hidraulica no. 3/ 2013, pp. 7-14

- **Experimental testing of a low speed hydraulic motor with axial pistons**

Laura Grama, Daniel Banyai, Liviu Vaida

In: Hidraulica no. 3/ 2013, pp. 64-73

- **Research regarding the wear of ecological steels obtained through the carburizing of iron metal powders**
Olimpia Ghermec, Cristian Ghermec, Iulian Stefan
In: Hidraulica no. 4/ 2013, pp. 52-57

- **The efficiency of street car pollution reduction equipments**
Ioan Lepadatu, Adrian Ciocanea
In: Hidraulica no. 4/ 2013, pp. 85-90

- **Influence of chemical composition on hardening processes, corresponding for aluminum alloys 2024 used at hydraulic equipment**
Vasile Bratu, Florina Violeta Anghelina
In: Hidraulica no. 1/ 2014, pp. 50-57

- **Experimental determination of the asphalt road profile irregularities**
David Alexandru-Dorin, Voicu Gheorghe, Dutu Mihaela Florentina, Cujbescu Dan
In: Hidraulica no. 2/ 2014, pp. 21-24

- **Tiller hydrostatic transmission**
Gheorghe Ivan, Radu Ciuperca, Ioan Ganea
In: Hidraulica no. 3/ 2014, pp. 25-30

- **General methodology of working with HVOF integrated technological system**
Valeriu Avramescu, Luminita Elena Olteanu, Loredana Theodora Paun, Raluca Magdalena Nita, Daniel Bobe, Sebastian Rosulescu, Marius Manea
In: Hidraulica no. 3/ 2014, pp. 46-51

- **Cabin heat removal from parked cars**
Adrian Ciocanea, Dorin Laurentiu Buretea
In: Hidraulica no. 3/ 2014, pp. 52-58

- **Integrated technological system for thermal spraying by HVOF process**
Theodora Loredana Paun, Valeriu Avramescu, Raluca Magdalena Nita, Daniel Bobe, Sebastian Rosulescu, Elena Luminita Olteanu, Marius Manea
In: Hidraulica no. 3/ 2014, pp. 59-65

- **Optimizing the energy consumption of an industrial water-supply pump system by ensuring an optimal flow rate**
Gencho Popov, Boris Kostov, Miglena Hristova, Donka Ivanova, Anka Krusteva
In: Hidraulica no. 4/ 2014, pp. 42-50

- **Two operating modes electro-hydraulic servo valve**
Teodor Costinel Popescu, Alina Iolanda Popescu
In: Hidraulica no. 4/ 2014, pp. 51-55

- **Process Study on the Work of a Dough Kneader with a Planetary Motion of the Kneading Arm**
Dorel Stoica, Gheorghe Constantin
In: Hidraulica no. 1/ 2015, pp. 40-45

- **Designing of Liquid Piston Fluidyne Engines**

Sunny Narayan

In: Hidraulica no. 2/2015, pp. 18-26

- **Static Characteristics of the Orifices in a Pilot Operated Pressure Relief Valve**

Sasko Dimitrov, Simeon Simeonov, Slavco Cvetkov

In: Hidraulica no. 2/2015, pp. 35-39

- **A Review of Design of Stirling Engines**

Sunny Narayan

In: Hidraulica no. 3/2015, pp. 18-26

- **Experimental Investigation on Transient Response of Two Stage Pressure Relief Valve**

Basavaraj V. Hubballi, Vilas B. Sondur

In: Hidraulica no. 3/2015, pp. 42-47

- **Study on the Dynamics of the Tilling Aggregate**

Cristian Nuțescu, Iulian-Claudiu Duțu

In: Hidraulica no. 3/2015, pp. 65-69

- **CFD Study on the Distribution of Fertilizer in the Fertigation Plant**

Petru Marian Cârlescu, Oana-Raluca Corduneanu, Ioan Țenu, Gheorghe Șovăială, Gabriela Matache, Sava Anghel, Nicolae Tănăsescu

In: Hidraulica no. 4/2015, pp. 23-31

- **Wear Properties of Some W/Cu Materials Prepared by Powder Metallurgy**

Claudiu Nicolicescu, Iulian Ștefan, Victor Horia Nicoară, Marius Cătălin Criveanu

In: Hidraulica no. 4/2015, pp. 32-39

- **Researches upon Cavitation Erosion Behavior of Some Stainless Steels with Different Structures**

Lavinia Madalina Micu, Ilare Bordeasu, Mircea Octavian Popoviciu, Octavian Victor Oanca, Laura Cornelia Salcianu, Cristian Ghera, Anton Iosif

In: Hidraulica no. 4/2015, pp. 46-54

- **Modeling and Simulation of Conical Poppet type Relief Valve with Damping Spool**

Basavaraj V. Hubballi, Vilas B. Sondur

In: Hidraulica no. 1/2016, pp. 13-20

- **Optimization of Axial Wind Turbines Operation**

Mircea Bărglăzan

In: Hidraulica no. 1/2016, pp. 30-35

- **Functional Description of a Hydraulic Throttle Valve Operating inside a Hydraulic Circuit**

Fănel Dorel Șcheaua

In: Hidraulica no. 1/2016, pp. 47-50

- **Fertilizer Injection Device**

Gheorghe Sovaiala, Sava Anghel, Gabriela Matache, Alina Popescu, Petru Carlescu, Nicolae Tanasescu

In: Hidraulica no. 1/2016, pp. 51-60

- **Alternating Flow Hydraulic Generator for Water Jet Cutting Systems**

Ioan-Lucian Marcu, Cornel Ciupan
In: Hidraulica no. 1/2016, pp. 61-66

- **Evaluation of Nozzle Coefficients for Water Jet Used in Sewer Cleaning**

Nicolae Medan
In: Hidraulica no. 3/2016, pp. 14-20

- **Diagnostic and Correction of the Spreader's Inclination Hydraulic Circuit of the Transtainer Crane**

Genovevo Morejón Vizcaino, Julio Ernesto Hernández Martínez
In: Hidraulica no. 3/2016, pp. 21-28

- **Study of Surface Roughness for Steel Parts Cut with Abrasive Water Jets**

Sandor Ravai-Nagy, Nicolae Medan
In: Hidraulica no. 4/2016, pp. 12-17

- **About Wind Turbine Power Estimation and Measurement**

Mircea Bărglăzan, Teodor Miloş
In: Hidraulica no. 4/2016, pp. 18-26

- **Aspects Regarding the Special Hydraulic Distributors Operation**

Fănel Dorel Şcheaua
In: Hidraulica no. 4/2016, pp. 27-32

- **Aspect about Design of Experiment (DOE) to Study the Impact Forces Produced by Water Jets Used in Sewage Cleaning**

Nicolae Medan
In: Hidraulica no. 4/2016, pp. 41-47

- **Role of Engine Design in Combustion Process**

Sanjay Singh
In: Hidraulica no. 4/2016, pp. 55-62

- **An Introduction to Combustion Engines**

Sunny Narayan, Aman Gupta
In: Hidraulica no. 4/2016, pp. 69-77

- **Determining the Times of Charging and Discharging of Hydro-pneumatic Accumulators**

Dan Prodan, Anca Bucureşteanu
In: Hidraulica no. 1/2017, pp. 8-15

- **Some Analyze Considerations of the Kerf Variation for Abrasive Water Jet Cutting of a Steel Material**

Paul A. Basarman, Bogdan Cioruţa
In: Hidraulica no. 1/2017, pp. 26-32

- **Design Details and Fluid Flow Analysis for the Centrifugal Pump with Special Rotor Pattern**

Fănel Dorel Șcheaua

In: Hidraulica no. 1/2017, pp. 33-38

- **Experimental Determination of Pressure Losses when the Working Fluid Passes through Hydrostatic Directional Control Valves**

Corneliu Cristescu, Cătălin Dumitrescu, Radu Rădoi, Alina Iolanda Popescu

In: Hidraulica no. 1/2017, pp. 39-48

- **Considerations regarding Aerodynamic Interaction between Two Wind Turbines. Case of Study: Two Wind Turbines with Rotor Diameter of 6 Meters**

Adrian Popa, Beazit Ali, Ionut Cristian Scurtu

In: Hidraulica no. 1/2017, pp. 49-54

- **An Introduction to Hoisting Machines**

Sunny Narayan, Aman Gupta

In: Hidraulica no. 1/2017, pp. 61-66

- **Vector Estimation of Centrifugal Force and CAD Techniques for Protection Mechanism at Over-Speed of the Low-Power Wind Turbine Rotor**

Teodor Miloș, Mircea Bărglăzan, Rodica Bădărău

In: Hidraulica no. 2/2017, pp. 6-13

- **Dynamics of Hydraulic Cylinders. Classical Mathematical Models and Simulations**

Anca Bucureșteanu

In: Hidraulica no. 2/2017, pp. 14-20

- **Comparative Study of the AWJ Cutting Geometry using the 3D Point Measuring Method versus 3D Scanning of the Surfaces**

Adrian Paul Basarman, Nicolae Medan

In: Hidraulica no. 2/2017, pp. 34-39

- **Examining the Characteristics of Pedrollo CP130 Centrifugal Pump in Simulated Service Conditions**

Nikolett Fecser

In: Hidraulica no. 2/2017, pp. 40-49

- **Optimizing the Equation of Impact Forces Produced by Water Jets Used in Sewer Cleaning**

Nicolae Medan, Adrian Paul Basarman

In: Hidraulica no. 2/2017, pp. 56-61

- **Remanufacturing of Hydrostatic Systems for Heavy Duty Vertical Lathes**

Dan Prodan

In: Hidraulica no. 3/2017, pp. 6-17

- **Applied Research and Experimental Validation of a TLUD Industrial Solution**

Gabriela Matache, Edmond Maican, Ioan Pavel, Radu Iulian Radoi, Mihai-Alexandru Hristea

In: Hidraulica no. 3/2017, pp. 18-26

- **Testing of the Fertigation Equipment in Operation Conditions**

Gheorghe Sovaiala, Sava Anghel, Gabriela Matache, Alina Iolanda Popescu

In: Hidraulica no. 3/2017, pp. 31-36

- **Hydro Power Solution with Radial Turbine Based on Medium Flow Rate Water Streams**

Fănel Dorel Șcheaua

In: Hidraulica no. 3/2017, pp. 37-40

- **Optimal Shapes of the Cylindrical Pressurized Fuel Tanks**

Marin Bică, Mihai Țălu, Ștefan Țălu

In: Hidraulica no. 4/2017, pp. 6-17

- **Considerations on the Calculation of Ventilation Systems for Special Ships**

Octavian – Narcis Volintiru, Anastase Pruiu, Ionut Cristian Scurtu

In: Hidraulica no. 4/2017, pp. 18-24

- **The Influence of Deviation from Circularity on the Stress of a Pressurized Fuel Cylindrical Tank**

Ștefan Țălu, Mihai Țălu

In: Hidraulica no. 4/2017, pp. 34-45

- **Specific Methods for Acquiring Controlled Atmosphere for Clean Rooms Used in Industrial and Medical Domains**

Fănel Dorel Șcheaua

In: Hidraulica no. 4/2017, pp. 51-56

- **The CAD Analyses of a Torospheric Head Cover of a Pressurized Cylindrical Fuel Tank after the Crash Test**

Daniela Vintilă, Mihai Țălu, Ștefan Țălu

In: Hidraulica no. 4/2017, pp. 57-66

- **Testing Means of Piston-Type Seals**

Gabriela Matache, Gheorghe Șovăială, Alina Iolanda Popescu, Ana-Maria Popescu

In: Hidraulica no. 4/2017, pp. 67-72

- **Operational Management with Application on Streamline Sewage Treatment Stations**

Mariana Panaitescu, Fanel-Viorel Panaitescu

In: Hidraulica no. 4/2017, pp. 73-83

- **The Influence of the Corrosion and Temperature on the Von Mises Stress in the Lateral Cover of a Pressurized Fuel Tank**

Mihai Țălu

In: Hidraulica no. 4/2017, pp. 89-97

- **Examining Fire Pump Metz Fp 24/8 on Cavitation**

Nikolett Fecser, Rajmund Kuti

In: Hidraulica no. 4/2017, pp. 98-104

- **Analysis of Temperature Resistance of Pressurized Cylindrical Fuel Tanks**

Mihai Țălu, Ștefan Țălu

In: Hidraulica no. 1/2018, pp. 6-15

- **Using the Pressure Intensifiers in Hydraulic Units of Heavy Duty Machine Tools**

Dan Prodan, Anca Bucureșteanu

In: Hidraulica no. 1/2018, pp. 16-23

- **Improving Roughness Using Toroidal Milling for Complex Surface Processing**

Andrei Oșan

In: Hidraulica no. 1/2018, pp. 24-31

- **Design and Optimization of Pressurized Toroidal LPG Fuel Tanks with Variable Section**

Mihai Țălu, Ștefan Țălu

In: Hidraulica no. 1/2018, pp. 32-41

- **Fault Tree Analysis Used in Offshore Industry**

Mariana Panaitescu, Fănel-Viorel Panaitescu, Ionuț Voicu, Laurențiu-George Dumitrescu

In: Hidraulica no. 1/2018, pp. 42-48

- **Numerical Simulation of Thermal Processes Occurring at Testing Hydrostatic Pumps in Cavitation Mode**

Alexandru-Daniel Marinescu, Alexandru-Polifron Chiriță, Corneliu Cristescu, Carmen-Anca Safta

In: Hidraulica no. 1/2018, pp. 55-64

- **Theoretical Aspects regarding the Pressure Safety Valves Operation within a Hydraulic Circuit**

Fănel Dorel Șcheaua

In: Hidraulica no. 1/2018, pp. 65-70

- **Beam Sag Compensation in Single Column Heavy Duty Vertical Lathes**

Dan Prodan, Anca Bucureșteanu, Adrian Motomanca

In: Hidraulica no. 2/2018, pp. 6-13

- **Algorithm for Optimal Design of Pressurized Toroidal LPG Fuel Tanks with Constant Section Described by Imposed Algebraic Plane Curves**

Ștefan Țălu, Mihai Țălu

In: Hidraulica no. 2/2018, pp. 14-21

- **A New Solution for Water Aeration**

Eugen Tămășanu, Mădălina Zamfir, Nicolae Băran, Rareș Păun, Mihaela Constantin, Corina Moga

In: Hidraulica no. 2/2018, pp. 22-28

- **Design Details of a Turbine Model Used for Energy Conversion in Low Flow Rate Water Streams**

Fănel Dorel Șcheaua

In: Hidraulica no. 2/2018, pp. 29-32

- **[Analysis of Intelligent Control and Interface in Pressurized Liquid Injection Systems for Competitive Technical Solutions](#)**

Iosif Ferenți, Dan Opruța, Doru-Laurean Băldean
In: Hidraulica no. 2/2018, pp. 43-48

- **[The Optimal CAD Design of a 3D Hexagonal Toroid with Regular Hexagonal Cross-Section Used in Manufacturing of LPG Storage Tanks](#)**

Mihai Țălu, Ștefan Țălu
In: Hidraulica no. 2/2018, pp. 49-56

- **[Operating Equations of a Rotating Machine that Drives Fluids](#)**

Almaslamani Ammar Fadhil, Nicolae Băran
In: Hidraulica no. 3/2018, pp. 06-15

- **[The Influence of Corrosion and Temperature Variation on the Minimum Safety Factor of a 3D Hexagonal Toroid with Regular Hexagonal Cross-Section Used in Manufacturing of LPG Storage Tanks](#)**

Mihai Țălu, Ștefan Țălu
In: Hidraulica no. 3/2018, pp. 16-25

- **[The Influence of Corrosion and Pressure Variation on the Minimum Safety Factor of a 3D Hexagonal Toroid with Regular Hexagonal Cross-Section Used in Manufacturing of LPG Storage Tanks](#)**

Ștefan Țălu, Mihai Țălu
In: Hidraulica no. 3/2018, pp. 39-45

- **[Determination of a Set of Admissible Parameters in Designing of LPG Storage Tanks Considering a Required Safety Factor](#)**

Mihai Țălu
In: Hidraulica no. 3/2018, pp. 56-61

- **[Automatic Electro-Hydraulic System for a P.E.T. Waste Baling Press](#)**

Iulian-Claudiu Duțu, Edmond Maican, Sorin-Ștefan Biriș, Mihaela-Florentina Duțu
In: Hidraulica no. 3/2018, pp. 68-73

- **[Simulation of an Electro-Hydraulic System for a P.E.T. Waste Baling Press](#)**

Iulian-Claudiu Duțu, Edmond Maican, Sorin-Ștefan Biriș, Mihaela-Florentina Duțu, Mariana-Gabriela Munteanu
In: Hidraulica no. 4/2018, pp. 06-11

- **[Influence of the Rotating Piston Shape on the Flow Rate of a New Type of Rotating Working Machine](#)**

Ammar Fadhil Shnawa Almaslamani, Adrian Costache, Nicolae Băran
In: Hidraulica no. 4/2018, pp. 48-54

- **[Technological and Constructive Considerations on the Realization of Components and Parts Using 3D Printing FDM-Type Technology](#)**

Mircea Dorin Vasilescu
In: Hidraulica no. 4/2018, pp. 55-62

- **Theoretical and Experimental Research on the Technological Process of Spraying and Dynamics of the Motorized Agricultural Platform**
Polifron-Alexandru Chiriță, Corneliu Cristescu, Radu Rădoi, Oleg Ciobanu
In: Hidraulica no. 4/ 2018, pp. 63-71

- **Optimizing Air Flow Instilled in an Aeration Pool**
Mariana Panaitescu, Fănel-Viorel Panaitescu
In: Hidraulica no. 4/ 2018, pp. 72-75

- **Argumentation of the Optimal Hydrodynamic Profile of Blades of the Flow Microhydrostation Rotor's**
Ion Bostan, Viorel Bostan, Valeriu Dulgheru, Oleg Ciobanu, Radu Ciobanu, Polifron Chiriță
In: Hidraulica no. 4/ 2018, pp. 84-89

- **Heavy Duty Machine Tools – Hydraulic Balancing of the Kinematic Chains**
Dan Prodan, Anca Bucureșteanu, Adrian Motomanca
In: Hidraulica no. 1/ 2019, pp. 06-15

- **Testing of Operating Characteristics with Powershift Multi-disc Clutches**
Attila Szegedi
In: Hidraulica no. 1/ 2019, pp. 23-30

- **Reducing Pollutant Emissions by Integrating Flue Gas Treatment Systems into a Corn Coal Fired Coating Plant**
Adrian Țenchea, Dănuț Tokar, Adriana Tokar
In: Hidraulica no. 1/ 2019, pp. 31-37

- **Using Complex Liquid-Measuring Devices in Fire Hoses**
Nikolett Fecser, Filomena Haromi, Rajmund Kuti
In: Hidraulica no. 1/ 2019, pp. 38-44

- **The Correlation between the Composition of the Gas Mixture Injected into Water and the Concentration of Dissolved Oxygen in Water**
Nicoleta Dorina Albu, Elena Beatrice Tănase, Nicolae Vlad Sima, Nicolae Băran, Corina Moga
In: Hidraulica no. 1/ 2019, pp. 45-56

- **Influence and Effects of Pressure Variation on the Life Span of External Gear Pumps**
Polifron – Alexandru Chiriță, Teodor-Costinel Popescu, Alexandru – Daniel Marinescu, Constantin Teodoru, Corneliu Crețu
In: Hidraulica no. 1/ 2019, pp. 88-97

- **Researches on the Operation of a Fine Bubble Generator and Oxygen Concentrators**
Rareș Dumitru Păun, Nicolae Băran
In: Hidraulica no. 1/ 2019, pp. 107-115

- **Researches Regarding the Execution of a Flat Jet Generator Used for Water Aeration**
Nicoleta Dorina Albu, Nicolae Băran, Mihaela Petroșel, Daniel Besnea, Mihaela Constantin
In: Hidraulica no. 2/ 2019, pp. 23-28

- **Fluid Flow within a Hydrostatic Lobe Pump**

Fănel Dorel Șcheaua

In: Hidraulica no. 2/2019, pp. 36-42

- **Sensitivity Analysis of Sharp-Crested Weirs as a Function of Shape Opening, for Small Discharges**

Cristina Sorana Ionescu, Daniela Elena Gogoșe Nistoran, Ioana Opriș, Ștefan-Mugur Simionescu

In: Hidraulica no. 2/2019, pp. 43-51

- **Equipment for Obtaining Thermal Energy by Using Biomass**

Gabriela Matache, Ioan Pavel, Gheorghe Șovăială, Alina Iolanda Popescu, Mihai-Alexandru Hristea

In: Hidraulica no. 2/2019, pp. 62-71

- **Experimental Simulation of Pressure Losses in the Combustion Chamber of a Diesel Engine**

Daniel Ostoia

In: Hidraulica no. 3/2019, pp. 06-13

- **Application of Simulation Technology in Analysis of the Influence of the Casing Hanger Length on the Stress and Deformations of Suspended Casing**

Gheorghita Tomescu, Alexandra-Cătălina Florea

In: Hidraulica no. 3/2019, pp. 14-22

- **Experimental Researches on Electricity Consumption in the Process of Water Aeration**

Nicoleta Dorina Albu, Mihaela Petroșel, Mihaela Constantin, Octavian Donțu, Nicolae Băran, Beatrice Tănase, Corina Moga

In: Hidraulica no. 3/2019, pp. 41-46

- **Determination of the Calorific Power of Densified Solid Biofuels**

Alina Iolanda Popescu, Carmen Necula

In: Hidraulica no. 3/2019, pp. 68-75

- **Examining Centrifugal Pump on Cavitation**

Nikolett Fecser, Balázs Sára, Rajmund Kutí

In: Hidraulica no. 4/2019, pp. 06-12

- **The Influence of the Fluid Nature on the Driving Power of a Rotating Volumetric Pump with Profiled Rotors**

Mariana Mirela Stoican (Prisecaru), Nicolae Băran, Almaslamani Ammar Fadhil Shnawa, Mihaela Constantin

In: Hidraulica no. 4/2019, pp. 13-20

- **Dynamic Analysis of a Centrifugal Pump using CFD and FEM Methods**

Nicolae Iacob, Nicușor Drăgan

In: Hidraulica no. 4/2019, pp. 29-37

- **Modelling and Sensitivity Study of a Firefighting System**

Flóra Hajdu, Rajmund Kutí

In: Hidraulica no. 4/2019, pp. 38-44

- **Marine Impressed Current Cathodic Protection System**

Mihail-Vlad Vasilescu, Mariana Panaitescu, Fănel-Viorel Panaitescu

In: Hidraulica no. 4/2019, pp. 45-62

- **Experimental Research on the Processing of Convex Spherical Surfaces with Toroidal Mills versus Spherical Mills**

Andrei Oșan

In: Hidraulica no. 4/2019, pp. 63-72

- **Optimal Design of a CNG Storage Tank with a Combined Form Consisting of a Torus and a Sphere**

Mihai Țălu, Ștefan Țălu

In: Hidraulica no. 4/2019, pp. 73-82

- **The Influence of Corrosion and Temperature Variation on a CNG Storage Tank with a Combined Form Consisting of a Torus and a Sphere**

Mihai Țălu, Ștefan Țălu

In: Hidraulica no. 4/2019, pp. 93-104

- **Aspects of the Operation of the Blade Pumps Used in Agricultural Irrigation Applications**

Fănel Dorel Șcheaua

In: Hidraulica no. 4/2019, pp. 105-110

- **The Construction of Systems for Air Dispersion in Wastewater**

Titu – Cătălin Cioienaru, Nicolae Băran, Octavian Donțu, Daniel Besnea, Corina Moga, Mihaela Petroșel, Mihaela Constantin

In: Hidraulica no. 4/2019, pp. 111-118

- **Experimental Research on the Processing of Concave Spherical Surfaces with Toroidal Mills Versus Spherical Mills**

Andrei Oșan

In: Hidraulica no. 1/2020, pp. 7-15

- **Transients in Public Water Supply in Győr-Moson-Sopron County**

Nikolett Fecser

In: Hidraulica no. 1/2020, pp. 16-20

- **Study of Temperature–Corrosion–Torsion Affecting Factors on the Shape of a Toroidal LPG Tank Using the Finite Element Method**

Mihai Țălu, Ștefan Țălu

In: Hidraulica no. 1/2020, pp. 21-32

- **Numerical Analysis of the Influence of Uniaxial Compression Loads on the Shape of a Toroidal LPG Tank**

Ștefan Țălu, Mihai Țălu

In: Hidraulica no. 1/2020, pp. 47-58

- **Establishing the Mathematical Relation between the Rotor Radius and the Height of the Rotating Piston for a Rotating Machine with Profiled Rotors**
Mariana Mirela Stoican (Prisecaru), Nicolae Băran, Almaslamani Ammar Fadhil Shnawa
In: Hidraulica no. 1/2020, pp. 64-69

- **Stress and Deformation Analysis under Bending and Torsional Loads of a Toroidal LPG Tank Based on the Finite Element Analysis**
Mihai Țălu, Ștefan Țălu
In: Hidraulica no. 1/2020, pp. 88-101

- **Determining the Optimal Curves for Stator or Rotor Profiles of Multi-Action Hydraulic Pumps and Motors**
Dan Prodan, Anca Bucureșteanu, Adrian Motomanca, Alina Ovanisof
In: Hidraulica no. 2/2020, pp. 7-14

- **Analysis of Stresses and Displacements in the Deformed Bent 3D Hexagonal Toroid with Regular Hexagonal Cross-Section Used in Manufacturing of LPG Storage Tanks**
Petre Oprițoiu
In: Hidraulica no. 2/2020, pp. 15-26

- **Researches on the Constructive Solutions of Fine, Fixed Bubble Generators**
Nicolae Vlad Sima, Nicolae Băran, Mihaela Constantin
In: Hidraulica no. 2/2020, pp. 39-47

- **Wood Splitter for Household Use**
Petrin Drumea, Valentin Barbu, Gabriela Matache, Ioan Pavel, Alina Iolanda Popescu
In: Hidraulica no. 2/2020, pp. 52-57

- **Analysis of Vibrations and Noise in a Centrifugal Pump for Predictive Maintenance**
Sanda Budea
In: Hidraulica no. 3/2020, pp. 25-32

- **Microwave Drying of Biomass**
Roxana Apolzan, Adrian Perebiceanu, Florica Mateias
In: Hidraulica no. 3/2020, pp. 33-43

- **Considerations Regarding the Different Behaviour to Vibratory Cavitation Erosion-Corrosion of Brass and Bronze Used in the Cooling and Power Systems of Railway Engines**
Iosif Lazăr, Ilare Bordeășu, Gabriel Vasile Ursu-Neamț
In: Hidraulica no. 3/2020, pp. 44-51

- **Researches on the Development of a Nanobubbles Generator Used to Waters Aeration**
Marilena Monica Boltinescu (Roza), Nicolae Băran, Mihaela Constantin
In: Hidraulica no. 3/2020, pp. 52-56

- **Examining Centrifugal Pump BKS300 on Cavitation**
Nikolett Fecser, Könözsy László, Nicolas Ledos, Balázs Sára
In: Hidraulica no. 3/2020, pp. 67-75

- **Press of Parallelepiped-Shaped Briquettes**

Gabriela Matache, Valentin Barbu, Ioan Pavel, Alina Iolanda Popescu, Cristina Florina Voicu
In: Hidraulica no. 3/2020, pp. 82-88

- **Mathematics for Real-Time S-Curve Profile Generator**

Marian Blejan, Robert Blejan
In: Hidraulica no. 4/2020, pp. 7-25

- **Theoretical and Experimental Researches on the Determination of Pressure Losses on Bubble Generators Used for Water Aeration**

Marilena Monica Boltinescu (Roza), Nicolae Băran, Nicolae Vlad Sima, Mihaela Constantin
In: Hidraulica no. 4/2020, pp. 42-50

- **Solutions for the Reuse of Rainwater in Indoor Plumbing**

Adriana Tokar, Diana Foriș, Dănuț Tokar, Simona Popa-Albu
In: Hidraulica no. 4/2020, pp. 51-58

- **Aspects regarding the Operation of PELTON Turbine Model Used in Energy Recovery from Water Streams**

Fănel Dorel Șcheaua
In: Hidraulica no. 4/2020, pp. 72-77

- **Biomass Processing from Agricultural Residual Production and Maintenance Operations when Cutting Trees and Vines**

Ioan Pavel, Gabriela Matache, Alexandru-Polifron Chiriță, Alina Iolanda Popescu, Cristian Diaconu
In: Hidraulica no. 4/2020, pp. 93-97

- **Analysis of the Dynamic Behaviour and Energy Efficiency of an Oscillating Hydraulic Pressure Intensifier**

Alexandru-Polifron Chiriță, Teodor Costinel Popescu, Ioan Bălan, Ana-Maria Popescu, Fănel Dorel Șcheaua
In: Hidraulica no. 1/2021, pp. 7-16

- **Energy Loss Reduction in Hydraulic Installations of the Machine Tools Served by Constant Flow Pumps**

Anca Bucureșteanu, Adrian Motomancea, Alina Ovanisof
In: Hidraulica no. 1/2021, pp. 17-23

- **Hot Water Recirculation in High Rise Buildings to Reduce Water Consumption**

Paul Frăsie, Adriana Tokar
In: Hidraulica no. 1/2021, pp. 38-43

- **Drying of Biomass in an Infrared Tunnel with Conveyor Belt**

Ioan Pavel, Gheorghe Șovăială, Alina Iolanda Popescu, Kati Pavel, Dragoș Preda, Bogdan Duran
In: Hidraulica no. 1/2021, pp. 50-56

- **A Critical Review of Combustion Noise in Combustion Engines**

Sunny Narayan, Aman Gupta
In: Hidraulica no. 1/2021, pp. 57-65

- **[A Critical Review of Piston Motion Noise in Combustion Engines](#)**

Sunny Narayan, Aman Gupta

In: Hidraulica no. 1/2021, pp. 72-79

- **[Modeling and Simulating the Operation of the Hydraulic Tool Holder Tightening/Releasing Systems Served by Accumulators](#)**

Anca Bucureşteanu, Adrian Motomancea, Alina Ovanisof

In: Hidraulica no. 2/2021, pp. 7-14

- **[Comparative Study of the Effect of the Compression and Traction Loads on the Stress and Deformation of a Toroidal LPG Tank](#)**

Petre Opriţoiu

In: Hidraulica no. 2/2021, pp. 15-28

- **[Analysis of Heat Flow and Transfer in the T Joint of a Steam Installation](#)**

Mariana Panaitescu, Fănel-Viorel Panaitescu, Robert-Alexandru Dăineanu

In: Hidraulica no. 2/2021, pp. 29-41

- **[Comparative Study on Providing the Necessary Heating for a Renewable Air Treatment Plant](#)**

Valentin Apostol, Mihaela Constantin, Horaţiu Pop, Beatrice Iborean, Cristian Marin, Daniel Taban

In: Hidraulica no. 2/2021, pp. 42-48

- **[Design and Study of Hydraulic Systems](#)**

Mihai Diaconu, Tiberiu Axinte, Cătălin Frăţilă, Paul Bocănete, Remus Cojocaru

In: Hidraulica no. 2/2021, pp. 49-56

- **[Acoustic Monitoring of Diesel Engine](#)**

S. Narayan, Vipul Gupta

In: Hidraulica no. 2/2021, pp. 90-96

- **[A Review of Combustion-Based Noise in Engines](#)**

Vipul Gupta, S. Narayan

In: Hidraulica no. 2/2021, pp. 103-107

- **[Heat Treatment Influence of Alloy 5083 on Cavitation Erosion Resistance](#)**

Dionisie Istrate, Cristian Ghera, Laura Sălcianu, Ilare Bordeaşu, Brânduşa Ghiban, Dumitru Viorel Băzăvan, Lavinia Mădălina Micu, Daniel-Cătălin Stroiţă, Daniel Ostoia

In: Hidraulica no. 3/2021, pp. 15-25

- **[Impact of Yttria Reinforced Nanolubricants onto the Tribological Properties](#)**

Álmos Dávid Tóth, Ádám István Szabó, Jan Rohde-Brandenburger, Rajmund Kuti

In: Hidraulica no. 3/2021, pp. 26-33

- **[Defining the Main Parameters of a Darrieus Type Wind Turbine with a Power of 1 kW](#)**

Valeriu Dulgheru, Cătălin Dumitrescu, Edmond Maican, Oleg Ciobanu, Radu Rădoi

In: Hidraulica no. 3/2021, pp. 43-50

- [**A Review of Quantification of Noise in Engines**](#)
 Sujoy Nair, Raman Singh
In: Hidraulica no. 3/2021, pp. 51-56

- [**Combustion Process Analysis in Engines Using Vibration Signals**](#)
 Faisal O. Mahroogi, S. Narayan
In: Hidraulica no. 3/2021, pp. 67-79

- [**A Review of NVH Testing of Engines**](#)
 Raman Singh, Sujoy Nair
In: Hidraulica no. 3/2021, pp. 80-85

- [**A Review of Structural Attenuation in Combustion Engines**](#)
 S. Narayan, Raman Singh
In: Hidraulica no. 3/2021, pp. 94-99

- [**Dynamic Modeling and Simulation of Working Regime of the Hydraulic Driven of Auger Bucket for Loader Using Matlab/SimHydraulics**](#)
 Carmen Debeleac
In: Hidraulica no. 4/2021, pp. 7-16

- [**Examining of Public Water Supply System**](#)
 István Lakatos
In: Hidraulica no. 4/2021, pp. 35-39

- [**ECOVALDES Branch Choppers**](#)
 Ioan Pavel, Gabriela Matache, Alina Iolanda Popescu, Kati Pavel, Ioan Munteanu
In: Hidraulica no. 4/2021, pp. 70-75

- [**Experimental Research on a Savonius Helical Turbine with Integrated Transparent PV Cells**](#)
 Sanda Budea, Ștefan-Mugur Simionescu, Octavian Lambescu
In: Hidraulica no. 1/2022, pp. 7-13

- [**Examination of Losses in Fire Extinguisher System Operated from Centrifugal Pump**](#)
 Rajmund Kuti, Péter Horváth, Flóra Hajdu, Csenge Papp, Gabriella László
In: Hidraulica no. 1/2022, pp. 22-27

- [**Experimental Research on the Influence of Factors on the Electricity Production of Thin-Film Photovoltaic Panels**](#)
 Adriana Tokar, Dănuț Tokar, Filip Stoian, Daniel Muntean
In: Hidraulica no. 1/2022, pp. 46-52

- [**Determining the Relation between the Size of the Air Bubble Immersed in Water and the Dissolved Oxygen Concentration**](#)
 Marilena Monica Boltinescu (Roza), Nicolae Băran, Mihaela Constantin
In: Hidraulica no. 1/2022, pp. 53-60

- [**Use of a Cylinder with Two Piston Rods**](#)
 Cătălin Frățilă, Tiberiu Axinte, Roxana Damian, Elena Curcă, Diana Dumitraș
In: Hidraulica no. 1/2022, pp. 61-69

- **Hydraulic Station for a Railway Track Welding Machine**

Ioan Lepădatu, Liliana Dumitrescu, Ștefan Șefu, Laurențiu Valentin Nicolae, Dănuț Florin Mateescu
In: Hidraulica no. 1/2022, pp. 70-75

- **Experimental Demonstrations of Extension of Technical Applications for Pumping Units Equipped with Miniboosters**

Teodor Costinel Popescu, Alexandru-Polifron Chiriță, Alina Iolanda Popescu, Andrei Vlad, Ionel Daniel Vochin, Ana-Maria Carla Popescu
In: Hidraulica no. 1/2022, pp. 85-94

- **Researches on Water Aeration Using Fine Bubbles Generators**

Marilena Monica Boltinescu (Roza), Nicolae Băran, Albertino Giovanni Roza, Mihaela Constantin
In: Hidraulica no. 1/2022, pp. 95-105

- **Hydraulic Installation for the Rotary Crane of a Railway Track Welding Machine**

Ioan Lepădatu, Ștefan Șefu, Ionela Mihaela Baci, Laurențiu Valentin Nicolae, Dănuț Florin Mateescu
In: Hidraulica no. 1/2022, pp. 106-110

- **Overview of Multi-Position Cylinder**

Tiberiu Axinte, George Surdu, Alexandru Savastre, Victor Badanau, Camelia Pascu, Nilgun Milis
In: Hidraulica no. 1/2022, pp. 111-117

- **Control Performance of an Energy-Efficient Hydrotronic Transmission**

Alexandru-Polifron Chiriță, Radu Iulian Rădoi, Bogdan Alexandru Tudor, Ștefan-Mihai Șefu, Ana-Maria Popescu
In: Hidraulica no. 2/2022, pp. 7-14

- **Mathematical Modeling and Simulation of the Operation of Hydraulic Systems with Resistive Adjustment**

Anca Bucureșteanu
In: Hidraulica no. 2/2022, pp. 15-22

- **Practical and Simple Laboratory Experiment to Visualize the Correlation among the Hydraulic Flow Parameters in Pipes**

Henrique Pizzo, Rafaela Lima, Michele Resende, Ana Flávia Cruz
In: Hidraulica no. 2/2022, pp. 23-28

- **Criteria and Instruments for Choosing a Wind Turbine**

Fănel-Viorel Panaitescu, Mariana Panaitescu, Paula Panait
In: Hidraulica no. 2/2022, pp. 29-37

- **Researches on Water Aeration Flowing through Pipes**

Marilena Monica Boltinescu (Roza), Nicolae Băran, Alexandru Iulian Grigore, Remus Voicu, Mihaela Constantin
In: Hidraulica no. 2/2022, pp. 38-44

- **Wastewater and Abrasive Sludge Recycling Solutions from Abrasive Water Jet Cutting Machines (AWJCM)**

Adriana Tokar, Luminița Fekete-Nagy, Cătălin Badea, Dănuț Tokar, Alexandru Fekete-Nagy
In: Hidraulica no. 2/2022, pp. 66-74

- **Measuring Robot Development**

Attila Lakatos

In: Hidraulica no. 2/2022, pp. 75-81

- **Increasing the Oxygen Transfer Rate to Stationary Water**

Marilena Monica Boltinescu (Roza), Nicolae Băran, Albertino Giovani Roza, Mihaela Constantin

In: Hidraulica no. 2/2022, pp. 91-100

- **Simulation of the Working Cycle for a Hydraulic Press Equipped with a Flow Regulator Mounted in Graetz System**

Carmen Debeleac

In: Hidraulica no. 3/2022, pp. 7-12

- **Determination of Energy Performance for a New Type of a Rotating Machine That Transports Fluids**

Mariana Mirela Stoican (Prisecaru), Nicolae Băran, Gabriel Ficher-Szava

In: Hidraulica no. 3/2022, pp. 20-26

- **Constructive and Technological Considerations on the Realization of a Prototype of a Rotary Valve Made with 3D Printed Components with UV Resin**

Mircea Dorin Vasilescu

In: Hidraulica no. 3/2022, pp. 27-34

- **A Volumetric Working Machine with Profiled Rotors for Fluids Circulation**

Gabriel Fischer-Szava, Nicolae Băran, Mihaela Constantin

In: Hidraulica no. 3/2022, pp. 35-39

- **Chassis with Installed Hydraulics for Multifunctional Vehicles Intended for Public Utility Works**

Ștefan Mihai Șefu, Radu Iulian Rădoi, Liliana Dumitrescu, Ioan Bălan, Mihail Petrache

In: Hidraulica no. 3/2022, pp. 40-47

- **Modelling and Simulation of the Transient Performance of a Direct Operated Pressure Relief Valve**

Sasko Dimitrov, Dejan Krstev

In: Hidraulica no. 3/2022, pp. 75-81

- **Main Constructive Solutions for Actual Wind Turbines Used for Green Power Generation**

Fănel Dorel Șcheaua

In: Hidraulica no. 3/2022, pp. 82-88

- **Mathematical Modeling, Laboratory Testing and Numerical Simulation of a Servo-Pump as Part of a Closed Circuit Primary Control Hydrostatic Transmission for Multi-Purpose Trucks**

Alexandru-Polifron Chiriță, Cristian Pavel

In: Hidraulica no. 4/2022, pp. 7-18

- **About Computer Tools Available for Dynamic Analysis of Mechanic and Hydraulic Systems of the Loader Bucket**

Carmen Nicoleta Debeleac

In: Hidraulica no. 4/2022, pp. 19-24

- **Effective Solutions to Reduce Energy Consumption in the Turbo-Blowers of a Sewage Treatment Plant**
Mariana Panaitescu, Fănel-Viorel Panaitescu, Alexandru-Andrei Scupi
In: Hidraulica no. 4/ 2022, pp. 25-32

- **Modification of Cavitation Erosion Resistance of Aluminum Alloy 7075 by Maintaining of Artificial Aging Heat Treatment at 180°C**
Ilare Bordeaşu, Alexandru Nicolae Luca, Iosif Lazăr, Dragoş Lazăr, Rodica Bădărău, Brânduşa Ghiban, Andreea Daniela Buzatu, Alin Mihai Demian, Ovidiu Petrişor Odagiu, Lavinia Mădălina Micu
In: Hidraulica no. 4/ 2022, pp. 33-41

- **A State-of-the-art Review of Compaction Control Tests Methods**
Andrei Buraga, Carmen Nicoleta Debeleac
In: Hidraulica no. 4/ 2022, pp. 42-51

- **Aspects regarding the Use of Hydraulic Motors**
Alexandru Bobe, Tiberiu Axinte, Cătălin Nuţu, Cătălin Frăţilă, Mihai Diaconu
In: Hidraulica no. 4/ 2022, pp. 52-61

- **System for Velocity Adjustment and Control of a Closed-Circuit Secondary Adjustment Hydrostatic Transmission**
Alexandru-Polifron Chiriţă, Radu Iulian Rădoi, Bogdan Marian Şerban, Ana-Maria Popescu, Andrei-Alexandru Benescu
In: Hidraulica no. 4/ 2022, pp. 62-74

- **Reliability Analysis and Automation of the Equipment for Pressing Axial Bearings in the Gearboxes**
Roxana-Luiza Ifrim, Ioan-Lucian Marcu, Daniel-Vasile Banyai
In: Hidraulica no. 4/ 2022, pp. 75-80

- **Some Pressure Drops Characteristics for Pressure Valves Operation within the Hydraulic Circuit**
Fănel Dorel Şcheaua
In: Hidraulica no. 4/ 2022, pp. 81-86

- **An Overview of the Linear Drive with Solenoid Coupling**
Viorel Panaitescu, Tiberiu Axinte, Victor Bădănaşu, Camelia Pascu
In: Hidraulica no. 4/ 2022, pp. 87-93

- **Influence of Temperature Variations on the Operating Characteristics of the Hydro-Pneumatic Accumulators**
Anca Bucureşteanu
In: Hidraulica no. 1/ 2023, pp. 7-14

- **Research on the Behaviour of a Toroidal LPG Storage Tank under Uniaxial Traction Loads**
Petre Opreţoiu
In: Hidraulica no. 1/ 2023, pp. 15-26

- **Efficacy of Using the Loss Factor to Estimate the Power Requirements of Wind and Water Tunnels with Varying Cross Sections**

Alexander Baron von Hohenhau
In: Hidraulica no. 1/2023, pp. 27-35

- **Laboratory Equipment for “Hot Air Generator with Forced Draft Fan Based on the TLUD Principle”**

Ioan Pavel, Gabriela Matache, Valentin Barbu, Ana-Maria Popescu, Kati Pavel
In: Hidraulica no. 1/2023, pp. 62-67

- **Sludge Dewatering Installations**

Dana-Claudia Farcaș-Flamaropol, Elena Surdu, Ramona Mare
In: Hidraulica no. 1/2023, pp. 68-75

- **Hydraulic System of Return Backlash Takeover with Pressure Bearing and without Rotary Fitting**

Anca Bucureșteanu
In: Hidraulica no. 2/2023, pp. 7-14

- **New Trends and Developments of Additive Manufacturing in the Field of Hydraulic Drive Systems according to the Circular Economy Concept**

Alexandru-Polifron Chiriță, Adriana Mariana Borș, Andrei-Alexandru Benescu
In: Hidraulica no. 2/2023, pp. 37-47

- **Case Study on Reducing Potable Water in Residential Buildings by Implementing Rainwater Storage Systems**

Adriana Tokar, Daniel Muntean, Dănuț Tokar
In: Hidraulica no. 3/2023, pp. 14-21

- **Experimental Research on Efficient Pumping at High Pressure Rates**

Teodor Costinel Popescu, Alexandru-Polifron Chiriță, Ana-Maria Carla Popescu, Alina Iolanda Popescu
In: Hidraulica no. 3/2023, pp. 36-43

- **Energy Efficient Refrigeration Solutions**

Adrian Mihai, Adriana Tokar, Mihai Cinca, Daniel Muntean
In: Hidraulica no. 3/2023, pp. 44-49

- **Efficacy of Using the Double-Acting Hydraulic Cylinder**

Tiberiu Axinte, Ionuț Datcu, George Surdu, Alexandru Savastre, Victor Bădănaș, Camelia Pascu, Iulia Tomozei
In: Hidraulica no. 3/2023, pp. 56-63

- **Analysis of the Behavior of Fluids Specific to Electrohydraulic Systems and the Performance of Industrial Machine Tools**

Adriana Mariana Borș, Liliana Dumitrescu, Ștefan-Mihai Șefu, Marin Șenilă
In: Hidraulica no. 3/2023, pp. 64-70

- **Experimental Research on the State of Stress and Deformations of Cylindrical Structures Subjected to Internal Pressure**

Gheorghe Cosmin Ciocoiu, Ion Durbacă, Nicoleta Sporea, Alin Diniță, Georgiana Luminița Enăchescu, Anca Mădălina Dumitrescu
In: Hidraulica no. 4/2023, pp. 7-16

- **Inertial and Video Methods – A Non-Invasive Approach to Measuring the Human ‘s Upper Limb Joints Biomechanical Parameters**

Cristian Radu Badea, Paul-Nicolae Ancuța, Sorin Ionuț Badea, Florentina Badea

In: Hidraulica no. 4/ 2023, pp. 17-28

- **Photovoltaic Panels’ Downcycling Method that Pushes the Transition to a Circular Economy**

Miruna-Andreea Tokar, Iuliu-Ioan Lazăr, Dănuț Tokar

In: Hidraulica no. 4/ 2023, pp. 37-42

- **Mechanical Frontal Seals Used in Centrifugal Pumps – From Theory to Experiment**

Sanda Budea

In: Hidraulica no. 4/ 2023, pp. 58-64

- **Comparative Study between the Operation of Refrigeration Installations with Refrigerants R134A and R471A for a Refrigerated Warehouse. Case Study**

Adrian Mihai, Adriana Tokar, Mihai Cîncă, Daniel Muntean

In: Hidraulica no. 4/ 2023, pp. 65-71

- **Constructive Design Elements of Large Dimensions Cyclones**

Radu I. Iatan, Melania (Mitucă) Corleciuc, Gheorghîța Tomescu, Anca Mădălina Dumitrescu, Luminița Georgiana Enăchescu, Gheorghe-Cosmin Ciocoiu

In: Hidraulica no. 1/ 2024, pp. 7-20

- **Simulation Study of a Double-Acting Hydraulic Cylinder with Shock Absorber**

Tiberiu Axinte, Lidia Calancea, Elena Curca, Mihai Diaconu, Camelia Pascu

In: Hidraulica no. 1/ 2024, pp. 88-95

- **PWM Drive Method Considerations for Proportional Pneumo-Hydraulic Solenoid Valves**

Robert Blejan, Marian Blejan, Alexandru Ionescu

In: Hidraulica no. 1/ 2024, pp. 96-100

- **Modeling and Simulation of the Hydraulic Clamping/Unclamping Systems Using Hydro-Pneumatic Accumulators**

Anca Bucureșteanu

In: Hidraulica no. 2/ 2024, pp. 7-14

- **The Laser Treatment’s Impact on the Surface Topography of MONEL® Alloy 400, used in the Manufacturing of Marine Equipment Components**

Ștefan Țălu, Kipkurui Ronoh, Dinara Sobola

In: Hidraulica no. 2/ 2024, pp. 15-26

- **Experimental Measurement of Functional Parameters for a Tesla Turbine**

Răzvan-Ionuț Tănăsescu, Dragoș-Ionuț Sburlan, Adrian-Sebastian Ungureanu, Ștefan-Mugur Simionescu

In: Hidraulica no. 2/ 2024, pp. 27-33

- **Modification of the Cavitation Erosion Resistance of Aluminum Alloy 2017 A by 12 Hours Duration of the Artificial Ageing Heat Treatment at 140°C**

Ilare Bordeășu, Brândușa Ghiban, Alexandru Nicolae Luca, Dorin Bordeășu, Cristian Ghera, Cornelia Laura Sălcianu, Daniel Cătălin Stroiță
In: Hidraulica no. 2/ 2024, pp. 34-40

- **Modelling and Simulation of Hydraulic Circuits Using 4/2-Way Hand-Lever Valves**

Mihai Diaconu, Elena Gabriela Curcă, Lidia Calancea, Tiberiu Axinte, Camelia Pascu, Iulia Tomozei
In: Hidraulica no. 2/ 2024, pp. 41-47

- **Considerations regarding the Behaviour of X12CrMoS17 and X22CrNi17 Steels to the Cavitation Erosion**

Lavinia Mădălina Micu, Ilare Bordeășu, Daniel Ostoia, Robert Parmanche, Alexandru Nicolae Luca, Cristian Ghera, Corneliu Eusebiu Podoleanu, Cornelia Laura Sălcianu
In: Hidraulica no. 2/ 2024, pp. 48-56

- **Numerical Simulation of Drying Equipment for Vegetal Matter with Automatic Process Control and Moisture Estimation by means of a Neural Network**

Alexandru-Polifron Chiriță, Gabriela Matache, Adriana Teodora Muscalu
In: Hidraulica no. 2/ 2024, pp. 68-81

- **Assessing the Remaining Useful Life of Hydraulic Pumps: A Review**

Ștefan Țălu
In: Hidraulica no. 3/ 2024, pp. 7-18

- **Considerations on Making Test Stands for Small Hydraulic Turbines**

Teodor-Costinel Popescu, Alina-Iolanda Popescu
In: Hidraulica no. 3/ 2024, pp. 19-32

- **Pulsation Characteristics on Volumetric Gear Pump Operation within Hydraulic Circuit**

Fănel Dorel Șcheaua
In: Hidraulica no. 3/ 2024, pp. 33-40

- **Hydrostatic Transmission for Small-Power Wind Turbines**

Alexandru-Polifron Chiriță, Ionaș Cătălin Dumitrescu, Radu-Iulian Rădoi, Marian Blejan
In: Hidraulica no. 3/ 2024, pp. 48-56

- **Challenges and New Approaches regarding Devices, Mechanisms, Robotic Systems, and Sensors Used in Modern Military Technique**

Aurelian Ștefănescu, Iulian Sorin Munteanu, Viorel Nițicală, Andreea Dana Alionte, Ana Maria Munteanu
In: Hidraulica no. 3/ 2024, pp. 64-73

- **Recovery of Potential Energy by Using a Digital Hydraulic Cylinder**

Ioan Pavel, Gabriela Matache, Ștefan-Mihai Șefu
In: Hidraulica no. 3/ 2024, pp. 74-79

- **New Developments in Intelligent Diagnostic Methods for Hydraulic Piston Pumps Faults**

Ștefan Țălu
In: Hidraulica no. 4/ 2024, pp. 7-16

- **Considerations about Vibratory Processes of Hydrostatic Systems with Linear or Rotary Engines**

Carmen Debeleac

In: Hidraulica no. 4/2024, pp. 93-98

- **Braking Energy Recovery Hydraulic System for Heavy-Duty Machine Tools. Mathematical Modeling and Simulation**

Anca Bucureşteanu

In: Hidraulica no. 1/2025, pp. 7-12

- **Signal Processing Techniques and Mathematical Modeling for Analyzing and Diagnosing Cavitation in Centrifugal Pumps**

Ştefan Țălu

In: Hidraulica no. 1/2025, pp. 13-26

- **Considerations regarding the Use of Infrared Thermography in the Maintenance of Hydraulic Drive Installations**

Teodor Costinel Popescu, Alina Iolanda Popescu

In: Hidraulica no. 1/2025, pp. 27-33

- **Performance and Efficiency Aspects for Hydraulic System with LS Valve**

Fănel Şcheaua

In: Hidraulica no. 1/2025, pp. 34-39

- **Performance Analysis of a Solar Fruit Dryer under Controlled Conditions**

Ioan Pavel, Gabriela Matache, Gheorghe Şovăială, Ana-Maria Carla Popescu

In: Hidraulica no. 1/2025, pp. 40-49

- **Simulation of Hydraulic Motor Controlled by the Control Valve**

Tiberiu Axinte, Mihăiţă Cazacu, Gabriela Curcă, Lidia Calancea, Mihai Diaconu, Camelia Pascu

In: Hidraulica no. 1/2025, pp. 50-58

- **Kinematic Analysis and Geometric Synthesis of Elevator Mechanisms with Non-Articulated X-Bars Mounted on Mobile Robots**

Dana Mirela Văleanu, Păun Antonescu

In: Hidraulica no. 1/2025, pp. 92-100