

OBSAH

Pavel Bergmann - HYTOS a.s. Vrchlabí, CZ.....	1
<i>Opening speech and open of conference</i>	
Rousek M., MZLU v Brně, FLD, ÚLDT, Brno, CZ.....	4
<i>Hydraulic ecological fluids, their reliability tests and tests of sealing resistance</i>	
Kopecký Z., Military academy, Brno, CZ.....	10
<i>Keeping of asked level of reliability of mobil machines by monitoring of technical conditions and filtration of hydraulic fluids</i>	
Razým V., Vachovec V., Plzeň, CZ.....	17
<i>Projekt and simulation of electrorohydraulic control system of high-stroke adjustment of two-high rolling mill for hot rolling</i>	
Prikkel K., Szabo M., Sjf - STU Bratislava, SR.....	23
<i>Multi physical simulation of pump</i>	
Pavlok B., VŠB - TU Ostrava, CZ.....	30
<i>Measurement and simulation of dynamic behaviour of hydraulic motor in boudary revaluations</i>	
Nevrlý J., FS VUT, Brno, CZ.....	37
<i>Giving a precision of parameters of of mathematic model of hydraulic circuit with rotary hydraulic motor with test stand</i>	
Vachovec V., FCC Folprecht, Brno, CZ.....	43
<i>Maintenance control in present information systems of firm control</i>	
Veselý F., HYTOS a.s., Vrchlabí, CZ.....	49
<i>Applications of hydraulics elements in stacionary and mobil machines</i>	
Robenek D., Mannesmann-Rexroth s.r.o., Brno, CZ.....	55
<i>Hydrostatic regulated drives of mobil machines</i>	
Bücker P., Brüninghaus Hydromatik GmbH, Horb a.N, Germany.....	60
<i>Advantages of electrohydraulic regulating systems of axial piston pumps</i>	
Mundry S., IFAS, Technische Hochschule Aachen, Germany.....	66
<i>High dynamic servohydraulic pulser</i>	
Ruoff C., VICKERS HANDELS GmbH, Wien, Austria.....	74
<i>New proportional valves</i>	
Peňáz V., Mannesmann Rexroth s.r.o., Brno, CZ.....	84
<i>Joining and dividing of flow in hydrostatic mechanisms</i>	
Chaplygin E., Volzhsky Technical Institute of Volgograd University, Volgograd, Rusko.....	87
<i>Method of visuallization of working process in jet amplifiers</i>	

Macura P., Sivák V., HYTOS Ostrava-Vítkovice s.r.o, Ostrava, CZ....	94
<i>Elektrohydraulic synchronization of hydraulic cylinders for manipulation with heavy masses</i>	
Ožana O., OCHI Inženýring s.r.o., Ostrava - Vítkovice, CZ.....	99
<i>Development and realization of electrohydraulic regulating exat systems for technology of forming</i>	
Wüsthof P., Mannesmann Rexroth AG, Lohr, Germany.....	104
<i>Market and application of secondary regulation</i>	
Ivantysynova M., University Duisburg, Germany.....	117
<i>New actuator principles for heavy duty manipulators and robots</i>	
Kuzněcov V.P., KGTA Kovrov, Russia.....	125
<i>Algoritm of multicriterion designer hydraulic systems</i>	
Manz R., KNECHT Filterwerke GmbH, Öhringen, Germany.....	129
<i>Energy consumption and operation costs of hydraulic filters</i>	
Sikora A., Military academy, Brno, CZ.....	137
<i>Possibilities of use the temperature measurement for monitoring of technical conditions in hydrostatic drives of mogile work machines</i>	
Harms H.H., ILF, Technische Universität Braunschweig, Germany...	144
<i>Development trends of hydraulics in mobil mechanisms</i>	
Domagala Z., Stradomski W., Prokopowicz J., Wroclaw University of Technology, Wroclaw, Poland.....	151
<i>An influence of the constructional parameters on the dynamic characteristics of proportional relief valves</i>	
Kedzia K., Chrostowski H., Wroclaw University of Technology, Wroclaw, Poland.....	158
<i>Modelling of an energysawing hydrostatic hybrid system</i>	
Bova M., Sivák V., HYTOS Ostrava-Vítkovice s.r.o., Ostrava, CZ.....	165
<i>Testing of AGC for KVARTO 3,5 m</i>	
Chrostowski H., Wroclaw University of Technology, Poland.....	172
<i>Analysis of zone of work a system: IC engine - hydrostatic transmission</i>	
Schröder J., Otto-von-Guericke-Universität Magdeburg, Germany ...	179
<i>Hydraulic valves with piezo-electric elements</i>	
Balasoiu V., Raszga C., Gavra A., Universita "Polytechnica" of Timisoara, Rumunia.....	187
<i>Measurements in transitory regime assisted by computer in the hydrodynamic field of cylindric slide valve</i>	
Raszga C., Balasoiu V., Gavra A., University Polytechnica of	

Timisoara, Rumunia.....	195
<i>Development of cavitation phenomenon in proportional directional valves</i>	
Malafeev S.I., Malafeeva A.A., Vladimir State University, Russia.....	203
<i>Chaotic movements in nonlinear servomechanisms</i>	
Anýž J., Praha, CZ.....	208
<i>Hydraulic circuits of machines for repairs and maintenance of roads</i>	
Čech V., Military academy, Brno, CZ.....	212
<i>Effect of pseudocavitation on size of leaving factor in hydraulic regulation elements</i>	
Nosál K., Military academy, Brno, CZ.....	222
<i>Design of hydraulic circuit of walking chassis</i>	
Noskievič P., VŠB - TU Ostrava, NORTECH s.r.o., Ostrava, CZ.....	227
<i>Classification of electrohydraulic servodrives regulators</i>	
Špelina D., FCC Folprecht, s.r.o., Brno, CZ.....	234
<i>Scada systems</i>	
Vaďura J., VUT Brno, FS, Ústav výrob. syst., Brno, CZ.....	242
<i>Classification of resistive properties of hydraulic flow elements</i>	
Chalupa A., HYTOS a.s., Vrchlabí, CZ.....	247
<i>Development trends in proportional valves</i>	
Noskievič P., VŠB - TU Ostrava, NORTECH s.r.o., Ostrava, CZ.....	253
<i>Control systems of electrohydraulic drives</i>	
Seeger U., ARGO GmbH Für Fluidtechnik, Kraichtal - Menzingen, Germany.....	260
<i>Return suction filters</i>	
Siegfried M., ARGO GmbH Für Fluidtechnik, Kraichtal - Menzingen, Germany.....	268
<i>New calibration materials - NIST</i>	
Heller J., Mechanical faculty of ČVUT, Praha, CZ.....	273
<i>Optimization of high.pressure sources</i>	
Balajev, KTTA, Kovrov, Russia.....	277
<i>The spherical plate axial-piston hydraulic machine</i>	
Lovrec D., Kiker E., Fakultät für Maschin., Maribor, Slovenia.....	280
<i>Precaution for improve of static behaviour of pressure controled axial pison pumps</i>	
Ettler P., Štika J., Compureg Plzeň s.r.o, CZ.....	289
<i>Regulation of electrohydraulic adjustment in control system of rolling mill</i>	
Štáva V., NORTECH s.r.o., Ostrava, CZ.....	295

<i>New application of electrohydraulic synchronization</i>	
Valošek J., NORTECH IVV s.r.o., Ostrava, CZ.....	301
<i>Elektrohydraulic regulated drives in mill applications</i>	
Detiček E., Kiker E., Faculty for Mechanical Engineering MG Maribor, Slovenia.....	306
<i>New conception in control of hydraulic systems</i>	
Kučík P., Strážovec I., University of Žilina, SR.....	312
<i>Static and dynamic properties of pressure source with regulation of driving E-motor</i>	
Novotný F., Technical univerzity of Liberec, CZ.....	317
<i>Application of pneumatic drives in modular construction of single-purpose machnies and manipulators</i>	
Mrkvica D., VŠB - TU Ostrava, CZ.....	323
<i>Modelling and simulation of pneumatic control elements</i>	
Sabev S.G., MARCON GmbH., Sofia, Bulgaria.....	330
<i>Modular construction of flexible hydraulic and pneumatic drives in machines for temperature process v linkách pro tepelné zpracování</i>	
Haumer Z., FESTO spol. s r.o., Praha, CZ.....	337
<i>New pneumatic elements - inteligentn pneumatics</i>	
Valkovič J., Mannesmann Rexroth s.r.o., Brno, CZ.....	341
<i>Novelties in field of pneumatic elements and systems in Rexroth MECMAN PNEUMATIC production</i>	
Slaměník, HYTOS Ostrava - Vítkovice, s.r.o., Ostrava, CZ.....	344
<i>Pneumatic drives in metallurgy industry</i>	
Finkbeiner M., Fluidtechnik Bohemia s.r.o., Brno, CZ.....	347
<i>Function and use non-piston cylindres in automatization</i>	