

b) Cumulative Content

Original Scientific and Professional Papers

1(1959)

Steam Turbo Compressor Balancing	<i>V. Brlek</i>	4
Diesel Engine Crankshaft Manufacturing	<i>F. Vodenik</i>	13
Role of Designer in the Company	<i>D. Nikonenko</i>	20
Grey Cast Iron as a Structural Metal	<i>N. Malešević</i>	25
Steam Turbo Compressor Balancing (cont.)	<i>V. Brlek</i>	30
About the Work Study	<i>Č. Buchberger</i>	34
12.2 MW Steam Turbo Compressor Data and Exploitation Results	<i>V. Damaška and L. Štimac</i>	36
Cooling of Thin, Perpendicularly Suspended Plates with Natural Air Circulation	<i>I. Turk</i>	49
On Reactive Jet Engines	<i>D. Krpan</i>	52
Trends in Mechanical Engineers Education Development in FNRY (Production Engineers)	<i>D. Kunstelj</i>	58
Quality of Production and Quality Mark	<i>J. Vlačević</i>	62
Steel Pipe as a Structural Element	<i>M. Milanez</i>	64
Tool Tempering of High-Speed Steel in Steam	<i>N. Sedlar</i>	66
Rational Flange Reconstruction	<i>M. Milanez</i>	73
On the Reactive Jet Engines (cont.)	<i>D. Krpan</i>	83
Machine Tool Repair Departments Planning	<i>A. Matković</i>	89
Hot Bath Tempering	<i>B. Liščić</i>	97
Rational Flange Reconstruction (cont.)	<i>M. Milanez</i>	102
Pressure Gauge Supply Height Increase of a Mixed Flow Pump	<i>A. Dorocić</i>	109
Aerodynamic Forming of Automobile Bodies	<i>J. Modly</i>	112
A Single Calculation Method of V-T Tothing for Spur Gears	<i>I. Szeniezei</i>	121
The Problems of Finish Machining on Lathes	<i>V. Šolaja</i>	123
Tempering of Tool Steel in Hot Baths	<i>B. Liščić</i>	131
Protection of Lathe Operators Against Scrapings	<i>O. Piškorić</i>	135
The Problems of Finish Machining on Lathes (cont.)	<i>V. Šolaja</i>	145
A Slag Sensitive Heat Loss in Steam Boilers	<i>Ž. Milobar</i>	149
Protection of Lathe Operators against Scrapings	<i>O. Piškorić</i>	157
The Method of Instantaneous Observation	<i>D. Taboršak</i>	157
Detecting of Irregularities in Engine Operation by Indicator Diagram	<i>J. Modly</i>	162
Manufacture of Double Layer Bearing Bushes	<i>F. Vodenik and M. Tupec</i>	170
Tension Stress Test by Electroresistant Tensogauges	<i>Božena Božiček-Hruška</i>	177
Some Experience in the Organization of Machine Tool Repair Departments	<i>A. Matković</i>	183
Some Questions about the Form of Cutting Machines and Cutting Kinematics	<i>V. Šolaja</i>	193
Steel Corrosion and Alitizing	<i>Željka Richter</i>	200
Water as a Factor in the Thermopower Plant Output Determination	<i>V. Damaška</i>	205
Something on Thermal Efficiency of Cooling Processes	<i>B. Slipčević</i>	221
Heat Content of Flue Gas Reach on Quick Ash	<i>Ž. Milobar</i>	225
Precautions during Liquid Gas Usage	<i>O. Piškorić</i>	230

Cumulative Content lists in sequence of publishing all original and reviewed scientific and professional papers published in the Journal *Strojstvo* from the year 1959th up to the end of 2003rd. Titles of papers are listed together with the author's(s) name(s) by volume serial number (publication year) and with the initial page number of the paper.

However, in the fifth and sixth year of the Journal publishing (in the years 1963 and 1964) the pagination of each issue was separate, and therefore, before the initial page number of a paper from this period, the serial number of the corresponding journal issue (in round brackets) is also given.

From the year 1972 on all the published original and reviewed scientific and professional papers have their basic documental (bibliographical) card as well as their sequent coden number which is given in the round brackets after the title of the paper.

Beginning with the year 1990 the numeration of published papers has been corrected and in such a way the sequent coden number gives the real serial number of the paper during all the period of Journal publishing.

Because of noncomplete informations about the manuscripts evaluation in first issues of Journal some errors in category statement of some papers in first volumes could not be excluded.

Some clear print errors made and aberances from original have been corrected.

2(1960)

Determination of the Holes Distances in the Serial Manufacturing	<i>A. Lovasić</i>	3
15 000 HP Marine Steam Turbine Welded Structure Fabrication	<i>Z. Beroš and V. Grbac</i>	37
On Thermo-nuclear Power Exploitation	<i>M. Crljenjak</i>	43
Problematics of Profile Milling Cutter Production for Turbine Blade Manufacturing	<i>I. Taloš</i>	53
Capability, Demands and Production of Sanitary Equipment	<i>F. Jelačić</i>	56
Complete repair of machine Tool	<i>A. Matković</i>	60
Shot Blasting Treatment	<i>V. Šolaja</i>	71
On Gears Tolerances	<i>S. Bernfest</i>	79
Cast Iron Surface Flame-Hardening of Machine Tools	<i>B. Liščić</i>	83
Influence of Angle of Attack to Profile Fabrication on Profile Tools with Underplaned and Undergrinded Teeth	<i>R. Andelić</i>	88
Piston Noise Decrease during Modern Explosive Engine Running	<i>B. Boras</i>	101
Water in Steam Power Plants	<i>I. Lončar</i>	106
On Tolerances of Free Measures	<i>M. Milanez</i>	113
On Gears Tolerances (cont.)	<i>S. Bernfest</i>	119
Machine Tool Automation and its Influence on Designing and Production Preparation	<i>I. Hercigonja</i>	133
Current Problems and Development Trends of the Internal Combustion Engines	<i>D. Krpan</i>	137
On Tolerances of Free Measures (cont.)	<i>M. Milanez</i>	141
On Gears Tolerances (cont.)	<i>S. Bernfest</i>	148
Sintering	<i>J. Martinčević</i>	151
Sintering Application	<i>Z. Begić</i>	158
Machine Tool Automation and its Influence on Designing and Production Preparation (cont.)	<i>I. Hercigonja</i>	165
Water in Steam Power Plants (cont.)	<i>I. Lončar</i>	171
Mechanical Engineering Expert in Chemical and Food Processing Industry	<i>J. Vlačević</i>	175
On Gears Tolerances (cont.)	<i>S. Bernfest</i>	179

3(1961)

Machine Tool Automation and its Influence on Design and Production Preparation (cont.)	<i>I. Hercigonja</i>	3
Increase of Resistance Against Sliding Wearing and Sticking by Soft Nitration Procedure	<i>B. Boras</i>	7
Bearings with a Silver Shaft	<i>D. Jeras</i>	13
Machine Tool Automation and its Influence on Design and Production Preparation (cont.)	<i>I. Hercigonja</i>	33
Water in Steam Power Plants (cont.)	<i>I. Lončar</i>	41
On the Sinter Material Manufacturing Technological Process in General	<i>J. Martinčević</i>	65
Intermediate Superheating as a Measure of the Steam Cycle Efficiency Improvement	<i>V. Damaška</i>	71
Some Experience in the Problems of Shaft Sealing Against Pressure in Vacuum	<i>K. Piřat</i>	77
IT-Packing Materials and Sealing with them	<i>Betka Travnik and Lj. Pevec</i>	82
Control Equipment Elements in the Technological Process Automation	<i>O. Mikić and M. Gavrilović</i>	97
Calculation and Choice of Fixed Part Sealings	<i>M. Krstić</i>	105
IT-Packing Materials and Sealing with them (cont.)	<i>Betka Travnik and Lj. Pevec</i>	114
The Problems of Sealing on Motionless Machine Parts	<i>M. Milanez</i>	121
Grey Cast Iron Spindles Bores and Their Bearings	<i>B. Prica</i>	129
Hydraulic High-Pressure Quick-Tightening Devices and Their Application	<i>B. Boras</i>	136
Control Equipment Elements in the Technological Process Automation (cont.)	<i>O. Mikić and M. Gavrilović</i>	145
Textile Fabrics Drying and Heat Treatment	<i>M. Žerđik</i>	176

4(1962)

Mechanical Surface Friction Coefficient Variability	<i>D. Krpan</i>	1
Some Experience in the Practice of Valve Usage in the Sulfuric Acid Industry	<i>F. Šimunović</i>	14
Multifuel Engine Development	<i>G. K. Martlew</i>	21
On the Extrusion Press Productivity	<i>J. Hribar</i>	33

Tools with Cutting Inserts	<i>P. Rebić</i>	44	On Research of Regularity Between the Number of Press Strokes and Stamp and Matrix Wearing	<i>B. Rebec</i>	167
Casting of Anti-Friction Alloy on the Basis of Tin and Lead	<i>I. Pauletta and Z. Venier</i>	65	Influence of the Cutting Speed and Workpiece Material on the Size of a Moment and a Cutting Force at Milling	<i>Š. Šavar</i>	175
Teeth Profile Discontinuity Depending on Generatrix Profile Parameters	<i>A. Lovasić</i>	75	12(1970)		
Pressure Loss Calculation in Technical Heat Exchangers	<i>B. Slipčević</i>	97	Heat Transmission at Freon Evaporation	<i>B. Slipčević</i>	7
Semi-built Crankshaft Fabrication Problems	<i>R. Cebalo and M. Butković</i>	111	On Some Effects During Stress and Deformation Analysis by the Method of Photoelastic Sheating	<i>Š. Jecić</i>	13
Multiple Fuel Engines	<i>D. Jeras</i>	116	Optimizing of Workers Number for Repairing Accidental Failures of Manufacturing Equipment	<i>B. Boras</i>	17
Determining of Railway Track Stress Loaded by Horizontal Force by means of Electroresistant Strain Gages	<i>I. Heidl</i>	129	Dimensional Systems of Physical Magnitudes	<i>R. Buljan</i>	33
Multiple Drilling	<i>B. Tomašić</i>	139	Stress Analysis of Thin Stiffened Structure Made up of Two Conical Shells	<i>I. Senjanović</i>	53
International Measure Units in Mechanical Engineering	<i>B. Kovač</i>	154	Experimental Vibration Determining of the Driving System by Electric Methods	<i>D. Bazjanac, M. Kolaj and A. Vučetić</i>	65
Vibration Calculation of the System Mass-Spring-Mass According to Rayleigh's Method	<i>S. Jecić</i>	161	Sizing of the Elements of the Turbo-generator Rotor Bandage Knots	<i>Đ. Debuš</i>	71
Theory of Reliability	<i>A. Đurašević</i>	168	Optimum Number Determining of Stamping Spare Tools	<i>B. Boras</i>	81
The Influence of Measurable and Nonmeasurable Quality Characteristics in Reliability of Equipment	<i>M. Rovešnjak</i>	175	Stress Concentration in Tension Strips with Shallow Circular Notches	<i>I. Alfirević and Z. Vnućec</i>	97
10(1968)			Turning of Steel by means of Ceramic Cutting Tips	<i>S. Margić</i>	103
Optimal Sizing of Heat Exchanger by Evaporation in Horizontal Tubes	<i>B. Slipčević</i>	1	Analysis of a Missile Motion Equation	<i>K. Drača</i>	111
Time Shortening and Cost Reduction of Machine Tool Repairs by Improving the Technological Process and Organization	<i>B. Milčić</i>	8	A New Method of Heat Exchanger Calculation for Cooling Technique	<i>B. Slipčević</i>	129
Problems of Hydrocopying Equipment	<i>K. Velebir</i>	17	The Comparison of the Classical and Complex Theory of Thin Shells of Revolution	<i>I. Senjanović</i>	145
Measurements by Strain Gauges	<i>K. Velebir</i>	33	Current Procedures of Gears Heat Treatment	<i>B. Liščić</i>	149
Fundamentals of Casting Designing	<i>Z. Bonačić-Mandinić</i>	42	Heat Transfer in Internal Combustion Engines and Methods of Increasing Thermal Efficiency	<i>M. Kondala Rao</i>	173
Microfiches in Service of the Science	<i>B. Hanz</i>	61	13(1971)		
Limit Loading of the Fastened Plate of the Rail Fastening Device on the Concrete Sleepers Calculated by Means of the Theory of Elasticity and the Theory of Plasticity	<i>O. Muftić</i>	65	Approach Analysis to Device Designing by Installing the Elements of Small Automation (NUEMA)	<i>B. Rebec</i>	1
Hard Metals and Their Application	<i>J. Martinčević</i>	72	A Contribution to the Calculation of Cooling Tower for Water Cooling with Forced Air Circulation	<i>E. Škrobonja</i>	15
Sensitivity Testing of Various Mineral Motor Lubricants to Mutual Mixing	<i>D. Krpan</i>	97	Surface Flame Tempering of Grey Cast Iron Sliding Trackways in the Machine Tool Manufacturing	<i>M. Stupnišek</i>	27
Electrohydraulic Servovalves	<i>R. Abdulji</i>	99	Analysis of Planetary Gearboxes	<i>N. Dujmović</i>	35
Contribution to the Calculation of Moment of Inertia in Rotary Bodies	<i>I. Werdnik</i>	110	Front Angle Influence of Backward Turned Profile Milling Cutter to the Scrapings Form and Torque Moment Value at Direct Flow Č.7432 Steel Milling	<i>R. Cebalo</i>	47
Motor Car Engine with a Significantly Stabilized Power at Variable Frequency of Revolutions	<i>D. Krpan</i>	121	Technique of Group Technology Introduction in the Small Assembly-Line Production	<i>V. Antolić</i>	53
On Plastic Deformation of Cemented Carbides	<i>O. Muftić</i>	129	Grey Cast Iron Treatment by means of Ceramic Tip Turning	<i>S. Margić</i>	65
Future of Nuclear Energy Application	<i>R. Buljan</i>	153	Heat Transmission Research of an Evaporator with Internally Finned Tubes	<i>H. Brockhause, M. Lüthin and B. Slipčević</i>	73
Out-of-Roundness Control of Large Diameter Cylinder	<i>D. Štulhofer</i>	159	Influence Coefficients of Circular Cylindrical Shell	<i>I. Senjanović</i>	79
On Experimental Stress Analysis with the Birefringent Coatings Method	<i>I. Alfirević</i>	166	Structural Properties of Austenite Grey Cast Iron with Ball-shaped Graphite	<i>I. Katavić</i>	85
Some Specific Treatment and Application Problems of Usual Steels for Casting Forms Manufacturing for Polyplast Processing	<i>M. Novosel</i>	175	Turbo Compressor Units in Chemical Plants	<i>D. Čorak</i>	91
11(1969)			Technical Drawing for Photomicrography and Printing Blocks	<i>Z. Cvirn</i>	99
Duraplast Processing by Pressing and Indirect Pressing	<i>V. Wilhelm</i>	1	Nuclear Energy Application for Peacetime Purposes	<i>V. Štambuk</i>	115
Injection Duraplast Pressing	<i>Aida Vicković-Zgombić</i>	11	On the Mechanism of the Pipeline Heat Dilatation, Stress and Tension	<i>V. Antić</i>	122
Mould Designing for Duraplast Pressing and Indirect Pressing	<i>T. Eberhardt</i>	15	A New Solution for the Problem of Spherical Shell of Revolution	<i>I. Senjanović</i>	129
On Experimental Stress Analysis with Photoelastic Strain Gages	<i>I. Alfirević</i>	33	A Proposal for Hastened Method of Parameters Determining at Cooling Tower Designing with Forced Air Circulation	<i>E. Škrobonja</i>	135
Mould Designing for Duraplast Pressing	<i>J. Fülepp</i>	41	Current Conceptions in the Motor Car Tyres Manufacturing	<i>Z. Bukljaš</i>	143
Test Results of Cooling Water Evaporator	<i>M. Lüthin and B. Slipčević</i>	65	Economics in Technical Documentation Drawing Up	<i>B. Kovač</i>	151
New Methods of Manufacture Preparation in the Metal-Working Industry	<i>B. Rebec</i>	74	14(1972)		
Fundamental, Complementary and Derived SI Units of Measure	<i>R. Buljan</i>	81	Application of International System of Units (SI) in Physics and Engineering (1)	<i>R. Buljan</i>	3
Analysis of Advantages and Disadvantages of the Sequential Stamping out of Band	<i>B. Rebec</i>	97	Steam Supply System in Nuclear Power Plants with Pressurized Water Reactors (2)	<i>G. Zake</i>	11
Dependence of the Size of a Cutting Force and a Moment on the Depth of Cutting and a Shearing Speed, in Milling	<i>Š. Šavar</i>	107	Increase of the Durability of Cutting Edges of Profiled Milling Cutters back for Clearance Treated with Molybdc Disulphide and by Nitration According to the Tenifer Process (6)	<i>R. Cebalo</i>	19
Simulation Method Survey	<i>B. Boras</i>	116	The Reasons of Aeroplane Accidents (3)	<i>B. Puhlovski</i>	23
Indian Ink Accessories and New Dimensions of Lines and Letters for Technical Drawings Drafting	<i>B. Kovač</i>	123			
The Theory of Thin Shells of Revolution Subjected to Uniform Pressure	<i>I. Senjanović</i>	129			
The Influence of Testing Machine and Tester to Determining the Specimen Mechanical Properties	<i>I. Catić</i>	141			
Free Carbon in Grey Cast Iron	<i>L. Karbić</i>	147			

Zbirni pregled za 1959.–2003. = Cumulative Summary for 1959–2003

207

Determination of Deflection Curve of Beam on two Supports with Integral Equation (4)	<i>V. Jarić</i>	45	Manual Operations Analyse (43)	<i>T. Taličić</i>	105
Analytical Dimensioning of Flooded Evaporators (5)	<i>B. Slipčević</i>	51	Reliability of a Short-Time Tool Life Test (44)	<i>E. Kuljanić</i>	111
Increase of the Durability of Cutting Edges of Profiled Milling Cutters back for Clarence Treated with Molybdc Disulphide and by Nitration According to the Tenifer Process (cont.) (6)	<i>R. Cebalo</i>	56	Ejector Drilling (45)	<i>S. Jašarbegović and S. Aračić</i>	117
Use of Motortesters for Testing the Operating Conditions of Petrol Engines (7)	<i>L. Bukljaš</i>	63	Application of Gas carburising and Hardening in the Gear Production (46)	<i>M. Stupnišek</i>	123
Molds for Processing Plastic Materials I (12)	<i>J. Indof</i>	73	Complete Determination of States of Stresses in Anisotropic Structures by Photoelastic Strip Methods (47)	<i>S. Jecić</i>	139
Graphical Presentation of the Dynamic State of the Toothed Gearing for Machine Tools (8)	<i>R. Motika</i>	85	Functioning of the Company's System in the Succession of Periods (48)	<i>M. Žaja</i>	149
Comparison of Machines for Electric Arc Welding (9)	<i>M. Kolić</i>	91	Some Aspects of Corrosion Fatigue in the Material for Construction of Marine Diesel Engines (49)	<i>B. Panić</i>	155
Influence of Variable Density of Heat Flow in Dimensioning of Evaporators and Condensers (10)	<i>B. Slipčević</i>	127	Gas Turbine under the Propulsion Conditions of the Fast Light Fighting Ships (50)	<i>A. Mrković</i>	167
Method for Optimal Design of Automotive Wheels (11)	<i>V. Grubišić</i>	135	Plasma Cutting of Aluminium Alloys (51)	<i>V. Volčanšek</i>	175
Molds for Processing Plastic Materials II (12)	<i>J. Indof</i>	146	Dependence Between the Toughness and Chemical Composition in Gray Iron (52)	<i>R. Žgaga</i>	203
Influence of Oil Feed Introducing Points upon Friction and Resistance of Slide Bearings (13)	<i>D. Krpan</i>	153	Influence of Wires on Blade Torsional Vibration Damping (53)	<i>M. Butković</i>	207
Zirconium and Zirconium Based Alloys (14)	<i>V. Bela</i>	163	Moly High-speed Steels (54)	<i>R. Cebalo</i>	217
Industrial Design and Construction (15)	<i>G. Keller</i>	173	Hydraulic Transmitter with Three Outlet Signals as a Part of Regulating System for Industrial Steam Turbines (55)	<i>A. Miholović</i>	227
15(1973)					
Calculation of Three-Stream Heat Exchangers (16)	<i>B. Slipčević</i>	3	17(1975)		
The Limit Case of Mass Separation with Systems of Varying Composition (17)	<i>K. Drača</i>	9	Heat Exchange in the Injection Moulds for Processing of Thermoplastics (56)	<i>I. Čatić</i>	3
Modern Aerodynamic Wing Structural Components for Safe Flying of Airplanes (18)	<i>B. Puhlovski</i>	13	Some Innovations in the Rules and Regulations for Boilers Plants (57)	<i>I. Librić</i>	9
Experimental Equipment for Qualitative Investigation of Flow Problems (19)	<i>K. Franjić</i>	21	Determination of Physical Properties of Water and Steam by Electronic Computer (58)	<i>M. Matković</i>	17
Heat Treatment of Al-Alloys and Proposed Symbolics (20)	<i>N. Malešević</i>	27	Superheater Temperature Characteristic of Flue Tube Package Boilers (59)	<i>Ž. Milobar</i>	29
Design and Calculation Devices with Gelatinous Plastic Mass (21)	<i>B. Boras</i>	35	Determination of the Critical Flow of Water Through the Tubes of Hot-Water Boilers (60)	<i>Đ. Gojković</i>	35
Synthesis Problems of Effectiveness and Reliability Theory of an Enterprise's System (22)	<i>M. Žaja</i>	83	Synthesis of Lever Joints Transmission Mechanisms (61)	<i>Z. Sapunar</i>	69
Photoelastic Analysis of the Stress Concentration at the Rail Connections (23)	<i>S. Jecić, M. Husnjak and N. Maljković</i>	89	Design of an Electrohydraulic Position Servo of Given Dynamic Properties (62)	<i>R. Abduli and P. Činer</i>	77
A New Formula for Determination of the Effective Thickness of the Gaseous Flame Layer (24)	<i>M. Gulić</i>	95	A Contribution to the Reproduction of the International Empirical Temperature Scale in the Socialistic Republic of Croatia (63)	<i>F. Šprung</i>	89
Aluminium Heat Exchangers (25)	<i>V. Volčanšek</i>	101	Control of Large Diameter Spherical Surfaces Shape (64)	<i>D. Štulhofer</i>	97
Determination of the Endurance Limit of Gear Tooth by Locati's Short Method (26)	<i>E. Oberšmit</i>	107	Some Characteristics of Summary Writing in Technical English (65)	<i>Ljerkica Bartolić</i>	101
The Estimate of a Dimensional Factor for Economical Manufacturing of Dies (27)	<i>B. Rebec</i>	114	Heat Transfer by Evaporation of Refrigerant on Plain Horizontal Tubes (66)	<i>B. Slipčević</i>	131
Patents' Report Problems (28)	<i>M. Konja</i>	127	Dynamic Strains of Attachment of the Dragline Excavator by the Removal of the Loaded Bucket from the Earth (67)	<i>R. R. Šelmić</i>	141
An Extension of Limit Design Theory to the Biological Fibrous Materials (29)	<i>O. Muftić</i>	165	Criteria of Optimalization of the Product's Form (68)	<i>A. Kostelić</i>	149
Accurate Mass Weighing by Modern Analytical and Microanalytical Balances (30)	<i>D. Prokić</i>	173	Some Special Cases of Wall Temperature Determination for Boiler Pressure Parts (69)	<i>Ž. Milobar</i>	159
Steam Boiler Furnace Temperature with Exact Calculation of Convection (31)	<i>Ž. Milobar</i>	177	Economic Evaluation and Justification of the Special Jig and Fixtures Application (70)	<i>R. M. Anđelić</i>	165
Circularity Control of Large Diameter Cylinder (32)	<i>D. Štulhofer</i>	185	Grain Boundaries Migrations at Phase Transformations (71)	<i>L. Karbić</i>	197
Application of the Shaft Generators Aboard Ships (33)	<i>J. Barić</i>	191	Machine Tool Ways Testing – Design and Analysis of a Testing Device with Analytical Test Data Processing (72)	<i>A. Lovasić</i>	205
16(1974)					
Stress Concentration Factors in Anisotropic Materials (34)	<i>I. Alfirević</i>	5	Heat Transfer by Evaporation of Refrigerant on Ribbed Tubes (73)	<i>B. Slipčević</i>	219
Criteria of Similarity for Incompressible Flow Fields Investigation by the Models (35)	<i>K. Franjić</i>	17	Aerodynamic Torsional Vibration Excitation Forces for Turbomachinery Blades (74)	<i>M. Butković</i>	229
Boilers with Welded Gastight Membrane Tube Walls (36)	<i>S. Ivandić</i>	27	Specific Volume of the Removed Filings at the Flat Profile Grinding (75)	<i>R. Cebalo</i>	235
Deformations of Rolling Mills and their Influence on the Thickness and Tolerance of the Rolled Material (37)	<i>Ž. Lazinica</i>	37	Production of Cone Gears of Small Modules (76)	<i>V. Volčanšek</i>	241
A Synthesis of Machining Operations of Various Components on Machine Tools (38)	<i>M. Selaković</i>	45	Heat Transfer by Evaporation of Refrigerant on Nests of Smooth and Ribbed Boiler Tubes (77)	<i>B. Slipčević</i>	259
Defining the Dependence of a Cutting Force and a Moment on the Specific Working Conditions and the Machining Geometry in Down Milling – Up Milling (39)	<i>Š. Šavar</i>	67	Energy Characteristics of Medium Speed Pumps with Different Entrance Edges of Impeller Vanes (78)	<i>Ljiljana Pilić-Rabdan</i>	267
Preliminary Steps in the Machine Tools Development (40)	<i>A. Hrabrić</i>	81	Heat Distribution in Boiler Furnace Provided with Natural Gas Burner	<i>M. Gulić, P. Perunović and I. Pešenjanski</i>	273
Experience of Prvomajska with Numerically Controlled Machine Tools (41)	<i>B. Milčić</i>	91	Ultrasonic Testing of White Metal Aligning on Slide Bearings (80)	<i>N. Sonički</i>	279
Computer Application in Production Control (42)	<i>I. Karabaić</i>	99	Problems of Feed Pump Design (81)	<i>J. Pulja</i>	283
			Balancing of the Rotors (82)	<i>R. Zobec and I. Škrlić</i>	287
			Testing of Grid Models of Regulating Diaphragms for 35 MW Steam Turbine Zenica (82)	<i>B. Staniša</i>	297

18(1976)

Contribution to a More Impartial Time Determination (84)	
	<i>D. Taboršak</i> 5
Application of the Hydraulic Analogy in Gas Dynamics (85)	
	<i>K. Franjić</i> 15
Problems of Facilities Locations in the Workshop Layout (86)	
	<i>H. Jaeger</i> 25
Electroremelting of Steel under Slag (87)	<i>Đ. Dobi</i> 33
Measuring of Reproduction Results (88)	<i>M. Žaja</i> 41
Methods of Heat Utilization from Waste Air and Gas in Ventilation Plants and Industrial Processes (89)	<i>F. Bilić</i> 49
The Estimate of the Gravitational Acceleration Value at Zagreb (90)	<i>M. Brezinišćak</i> 67
New Possibilities of Achieving the Results of Measuring on an Interference Comparator (91)	<i>F. Dusman and R. Stančec</i> 83
Improvements in the Production Process of Boiler Construction by Use of Modern Welding Processes (92)	<i>S. Jakšić, Lj. Beara, B. Kovačević and M. Živčić</i> 91
Some Elastomechanical Problems on 125 MW Turbines Plomin (93)	<i>M. Butković and M. Dičko</i> 99
Influence of Heat Treatment on the Longitudinal and Transverse Ultrasonic Waves in Straight Tubes from Cr-Ni-Mo Steel (94)	<i>J. Pirš</i> 125
Determination of the Influence Rank of Physical Quantities on the Properties of Technical Conversion Spaces (95)	<i>I. Librić</i> 133
Limit Values of Water Temperature in Hot-Water Boiler Tubes(96)	<i>Đ. Gojković</i> 145
Computer Aided Parameter Optimization for a Two-Stage Steam Ejector (97)	<i>B. Staniša</i> 153
Some Considerations on the Influence of the Casing Form on the Cyclone Mill Capacity (98)	<i>M. Gulić and I. Pešenjanski</i> 161
Contribution to Basic Studies in Three-Dimensional Photoelasticity (99)	<i>A. Mulc</i> 179
Research on the Wear-Out of Spiral Bevel Gears (Elroid Gears) (100)	<i>E. Oberšmit, Z. Jurjević and M. Opalić</i> 185
Modeling of Friction on Analog Computers (101)	<i>T. Šurina and V. Kecman</i> 193
Investigation of Hardenability of Casehardening Steels (102)	<i>T. Filetin and B. Liščić</i> 197
Mechanical Properties of the Basketweave Structure (103)	<i>L. Karbić</i> 201
Fluidics in Practice, Shown with Turbulence Amplifier (104)	<i>M. Gudžulić</i> 207
Primary Process of Equalization in Tube Heat Exchangers (105)	<i>A. Kostelić</i> 243
Application of the Finite Element Method to the Analysis of the Temperature Fields in an Axisymmetric Body (106)	<i>B. Matijašević</i> 251
Capital Project Supervision and Monitoring of Materials and Welded Joints Behaviour in Thermo-Power and Petrochemical Plant Operation (107)	<i>S. Jakšić, K. Ljubić and Bosiljka Schiller</i> 259
New Views of the Boiler Industry on Safety Valves (108)	<i>I. Librić</i> 265
Safe Service of the Flue Package Boilers with Respect to Water Side Sediments (109)	<i>Z. Milobar</i> 277
Mechanics of Large Electrical Machines (110)	<i>V. Jarić</i> 307
The Factor of Influence upon the Technological and Magnetic Properties of Steel Sheets Applicable in Building of the Magnetic Circuit of Electrical Motors (111)	<i>M. Goger and D. Mandurov</i> 313
Acoustic Control of Machinery Quality (112)	<i>D. Paljan</i> 325
Design Choice and Calculation Method of Chucking Devices which Chuck the Work Piece on Round Surfaces (113)	<i>B. Boras</i> 329
The Problem of Burrs at Punching and Cutting of Thin-Walled Plates in the Construction of Electric Machines and Transformers (114)	<i>J. Črnigoj</i> 341
New Production Possibilities of Fine Blanking (115)	<i>V. Volčanšek</i> 349

19(1977)

Homogeneity of the Production Process and its Influence on the Capacity Effectiveness, Delays between Operations and the Duration of the Production Cycle (116)	<i>B. Gornik</i> 5
Tribological Influence of Coolants on Machining by Detachment of Cuttings (117)	<i>Š. Šavar</i> 13
Fundamental on Engineering Design (118)	<i>E. Oberšmit</i> 21
Structure Analysis of the Work Time in a Machine Construction Factory (119)	<i>D. Taboršak and M. Car</i> 29

Effect of Stiffness on Hob Wear and on Gear Accuracy (120)	<i>E. Kuljanić and E. Lemaher</i> 37
Principles and Systems of Solar Energy Utilization for Heating and Preparation of Warm Water (121)	<i>J. Pažanin and I. Viličić</i> 45
Technology of Making Propeller Pump Blades (122)	<i>B. Josipović</i> 63
Sectionalizing of Marine Water-Tube Boilers from the Erection, Assembly and Transport Standpoint (123)	<i>Z. Kokotović</i> 67
Steam Boilers of Medium Power Capacity (124)	<i>S. Herr</i> 79
Methodological Problems of Measuring Economy and Profitability (125)	<i>M. Žaja</i> 87
Shaving (126)	<i>J. Milevoj</i> 97
Elimination of Vibrations Appearing on a Vertical Turning Lathe (127)	<i>A. Šestan</i> 107
A System Approach to Computer Aided Design (128)	<i>A. Kostelić</i> 119
Time Problem – Design Office (129)	<i>S. Nišević</i> 127
The Analysis of Torsional Rigidity in the Function of the Weld Module (130)	<i>B. Bajrić</i> 137
Consistent Application of International System of Units (SI) (131)	<i>R. Buljan</i> 141
The Loading Testing of Universal Joints (132)	<i>E. Oberšmit, M. Opalić and S. Šušmak</i> 147
The Influence of Front Angle of the Back-Turned Profile Cutter on the Amplitude Size of Linear and Torsional Oscillations in Milling Operation System (133)	<i>R. Cebalo</i> 155
The Role of Steam Turbine Units of Small and Intermediate Power Capacities in the Production of Electrical Energy (134)	<i>Z. Elčić</i> 163
Influence of Some Cooling Parameters on the Depth of Hardening and Possibility of Measuring the Quenching Intensity During Steel Hardening (135)	<i>B. Liščić</i> 189
Analysis of Tribological Losses and Tribological Level of Products in the Metalworking Industry (136)	<i>Z. Fijan and R. Zgaga</i> 203
A Contribution to the Understanding of the Adhesion of Lubricating Oils on Metal Surfaces (137)	<i>V. Ivušić and S. Turina</i> 207
Choice of Raw Materials used in the Production of Molten Metal for Grey Iron Castings (138)	<i>L. Karbić</i> 211
Material Selection - Material Data Bank (139)	<i>T. Filetin</i> 215
Correction Factors for Reinforcing of an Orthotropic Specimen with Birefringent Coatings (140)	<i>I. Alfirević</i> 221
Analysis of Service Features in Machining Work and their Improvements Due to the Application of Modern Cutters (141)	<i>B. Rebec</i> 225
Research in the Wear of Polyamide Sliding Bearing Surfaces (142)	<i>Ž. Cvirn and Zora Smolčić-Žerdik</i> 233
Dilatometric Analysis of Tempering Phenomena of High Alloyed Tool Steels with 12 % Cr (143)	<i>M. Novosel</i> 253
Product Evaluation from the Material Point of View (144)	<i>R. Zgaga</i> 263
Importance of the Information on Chemical Composition in the Production of Aluminium Alloys (145)	<i>S. Turina, Višnja Vranković and Z. Fijan</i> 277
A Contribution to the Determination of Internal Stresses in Thermoset Moulded Parts (146)	<i>J. Indof and Zora Smolčić-Žerdik</i> 283
Technical Self Adhesive Tapes and their Application in Industry (147)	<i>H. Džanić</i> 287
Some Questions of the Mechanical Engineering Industry Electroindustry and Shipbuilding (148)	<i>R. Svilar</i> 319
Scientific Research Work and Staff as a Development Factor in the Metal Working Industry (149)	<i>Š. Šavar</i> 325
Measurement of Work in the Production and Working of Metal (150)	<i>D. Taboršak</i> 335
An Example of Automatization of Measurement in Metal Industry (151)	<i>F. Dusman, R. Stančec, N. Rajković and V. Mudronja</i> 339
Interferometric Investigation of Heat Transfer from the Horizontal Cylinder in Crossflow of Air (152)	<i>Vilka Obsieger</i> 347
Microcomputers and Microprocessors – the Revolution in the Application of Automation (153)	<i>B. Ostojić</i> 353
On Information Sources of Scientific and Technical Information (154)	<i>Nada Kršković</i> 359

20(1978)

Method for Determining the Optimum Production Process of Mechanically Treated Parts (155)	<i>M. Selaković</i> 5
Gear Boxes with Double Meshed Gears for Six Speed Degrees (156)	<i>A. Hriješik</i> 13

- Realisation of the Total National Defense Conception in the Studies at the Faculty of Mechanical Engineering and Naval Architecture in the University of Zagreb (237) *I. Esih* 283
 Faculty of Mechanical Engineering and Naval Architecture in the University of Zagreb in Time to Come (238) *Ž. Sladoljev* 288
 Measurement of Reduction Gear Losses by Thermodynamic Method (239) *V. Kerčan* 321
 Fixation of Photoelastic-Fringe Patterns by Gamma Rays (240) *S. Jecić, M. Husnjak and Ž. Goja* 327
 A Proposal of a Calibration System of Length Measures (241) *F. Dusman, R. Stančec and N. Volarević* 333
 Evaluation of the Stereomicrostructure of Ferrous Materials by Using Electron Microscopy (214) *Irena Leļjak and F. Kovačiček* 339
 Steam Cooler Condenser with the Regulated Condensate Return (243) *S. Herr* 347
 Hydraulic Transmitter with Rotating Piston (244) *A. Miholović* 351
 General Scheme of Reproduction of the Business System (245) *M. Žaja* 355
- 22(1980)**
- On the Dimensional Synthesis and Kinetics Analyse of Level-Luffing Crane Linkages (246) *D. Šćap* 5
 Centrifugal Pumps Protection in NaHCO₃ Production by Chemical Nickel-Plating (247) *E. Arnautović* 13
 Modelling of Diesel-Motor as an Object of Automatic Control (248) *Z. Valter* 17
 Energy Problem – its Influence on the Development of Countries and on Ecological Life Conditions (249) *D. Krpan* 25
 Concept of the Process of Information (250) *Č. Olujić* 29
 Needs and Research Possibilities in Polymer Processing in Yugoslavia (251) *I. Catić* 37
 Fundamental Geometry Calculations and Control Measures for Cylindrical Involute Gears (252) *B. Obsieger and J. Obsieger* 45
 The Theory of the Stochastic Automat Based on the Nonformal Neural Networks (253) *B. Ostojić* 61
 Development of the Combustion Process in Fluidized State and its Application in the Generation of Heat and Electrical Energy (254) *L. Kreuh* 69
 Accuracy Comparison of Bevel Gear Efficiency Measurement of Three Kinds (255) *V. Kerčan* 77
 Energy Characteristics for Medium-Speed Pumps for Impeller Blades Number (256) *Ljiljana Pilić-Rabadan* 83
 Optimal Diffusor Angle Determination from the Minimizing Diffusor Losses Condition (257) *P. M. Janjić* 89
 Tools in Metal Processing and their Development for Achieving the Most Economical Production (258) *M. Škratić* 93
 Application of Metal Spectroscopy in the Erection of Power Plants (259) *B. Kovačević and Ana Lypolt* 99
 Outlining Dynamic Integral Information System for a Quality Control in the Organization of Associated Labour (260) *B. Zlatković* 119
 Research of Characteristic Factors of Cooling and Lubrication in Horizontal Band Sawing (261) *E. Kuljanić and S. Pastović* 127
 Double Reduction Planetary Gear Units Computer-Aided Design (Engl.) (262) *J. Kowalski* 131
 Reliability of Numerically Controlled Machine Tools (263) *P. Jerković, T. Pecek and V. Golja* 139
 Technical-Technological and Economic Reasons for Introducing and Applying Numerically-Controlled (NC) Machine Tools in the Production Process (264) *Ž. Štimac, I. Čičko and M. Tomić* 145
 Steels Tough at Low Temperatures (265) *Đ. Dobi* 151
 Concept of Machine Tools Development in the Factory »Prvomajska« (266) *B. Milčić, Z. Gašparac, F. Mužinić and D. Đurović* 157
 Programming of Numerically Controlled Machine Tools (267) *M. Cvjetičanin, Z. Mirković and V. Vuletić* 163
 Optimum Design and Exploitation Speeds of Multi-purpose Dry Cargo Ships (Engl.) (268) *C. Younis* 173
 Experimental Tests for Heat Transfer in the Shell of Tube Bundle Heat Exchangers with Baffle Segments (269) *B. Slipčević* 183
 Analytical Determination of Geometry Factors of Involute External Gear Tooth (270) *B. Obsieger, Ž. Orlić and J. Obsieger* 191
 Computerized Materials Selection on the Basis of Material Properties Files (271) *T. Filetin and S. Rodek* 197
- Application of Work Study and Stochastic Processes in Plastics Processing Industry (272) *M. Car, I. Belamarić, J. Bosanac, K. Pinter and N. Serdarević* 205
 Flexural Vibration Stresses in Twisted Turbine Blade (273) *M. Butković* 213
 General Matrix Algorithms for Kinematic Analysis of Planar Linkages Having only Simple Turning Pairs (274) *B. Hufnagl* 229
 Adhesion Problems with Diesel-Electric Locomotives (275) *Z. Valter* 233
 The Influence of Degree of Deformation and Conicity of Dies on the Material Flow by Direct Extrusion (276) *I. Duplancić* 241
 The User's Role in the Planning of Information Systems (277) *Nada Krišković* 247
 Standardization in Technology (278) *M. Ožanić* 251
 Impact of the Computer on Metal Machining and Workshop Management (279) *S. Turk, B. Milčić* 283
 Geometric Stiffness in the Analysis of Nonlinear Elastomechanical Problems by the Finite Element Method (280) *F. Traven* 291
 Design Science – New Field of Research (281) *E. Oberšmit* 295
 Power of Grinding Machine with Creep Feed Profile Grinding (282) *R. Cebalo* 303
 Calculations of Tolerance and Fits of Machine Parts Operating at Low or High Ambient Temperatures (283) *B. Anđelić* 309
 Theoretical Combustion Characteristic of »Aleksinac« Oil Shales (284) *P. M. Janjić* 315
 Mould Mixtures and International System of Units (285) *L. Karbić* 321
- 23(1981)**
- High Accuracy Method for Thermal Conductivity Measurements of Insulants (286) *M. Brezinašćak* 7
 Dynamic Behaviour of Kinematic Chains (287) *A. Krstulović* 17
 Two-Level Optimum Modelling System for Screw-Construction (Engl.) (288) *J. Kowalski* 23
 High Permeability Grain-oriented Silicon-Iron (Technologies and Characteristics) (289) *Z. Godec* 31
 Arithmetic Unit for Determining the Correction Weights (290) *Z. Vukelić* 39
 Investigation into the Influence of Working Condition of Grinding on the Quality of Ground Surfaces (291) *R. Jelačić* 61
 Analytical Determination of Involute Gear Teeth Profile Generated by a Pinion Cutter (292) *B. Obsieger* 69
 Replication Electron Microscopy (REM) as a Quantitative Control of Vacuum Heat Treated Steel (293) *Irena Leļjak* 75
 Theoretical Considerations Experimental Measurement and Application of Fluidized Bed Firing in Energy Systems (294) *L. Kreuh* 81
 Progress in Engineering Science (Special Consideration to the Integral Mechanical Engineering) (295) *D. Krpan* 89
 Production Control for Particular and Low-Series Production in Mechanical Engineering (296) *Z. Devčić and Z. Hoffman* 93
 The Methodology of Variation Principle Application for Solving Heat Transfer Nonlinear Shapes (297) *F. Belegu* 121
 Horizontal Bandsawing of Pipes in a Bundle (293) *E. Kuljanić* 127
 A Contribution to Calculation of Lathe Deformations (299) *A. Hrišek* 135
 Testing of Different Surface Protections of Turbine Blades Against Erosion (300) *B. Staniša and I. Dičko* 141
 Interpolation of Tabulated Given Curves by Means of Polynomials (301) *I. Fatur* 149
 Investigation of Influence of Material on Worm Gear Loading Capability (302) *M. Opalić* 177
 Mixed Model Assembly Line Balancing (303) *I. Čurković* 183
 Coordination of the Gasoline Engine and the Vehicle According to the Criterion of Maximum Economy (304) *E. Hnatko* 193
 Comparative Stresses on Statically Loaded Straight Cylindrical Parts (305) *S. Herr* 199
 Comparison of Most World-Known Rules for Pressure Vessels Used in Classical and Nuclear Engineering (306) *I. Prelec and D. Ivanov* 209
 The Use of Gummy Bearings in Electric Motors for Submersible Pumps (307) *B. Anđelić* 217
 On the Clearance Problem in Bonds of the Kinematic Part of Crank Press Driving Mechanism (308) *E. Šehović* 233
 Effects of Some Pneumatic Tools and their Efficiency in Application (309) *A. Šestan* 239
 Testing of Wet Steam Effects on the Speed of Erosion on Smooth and Erosive Surfaces of Turbine Blades (310) *B. Staniša* 245

- System for Design Exploitation and Maintenance of Manufacturing Standards in the Metal-Working Industry (311) *D. Marković* 253
- Kinematic- and Kinetostatic-Analysis of Planetary Friction Variable-Speed Drive (312) *K. Sivončik* 259
- Determination of Steel Erosion Velocity by Cavitation (313) *Ljiljana Pilić-Rabadan and V. Đurđević* 289
- Analysis of Man's Reliability in Time Recording (314) *M. Car* 295
- Buckling of Compressive Thinwalled Columns (315) *M. Rogić* 309
- Steam-Hot Water Two-Cycle Boilers (316) *Z. Milobar* 315
- Optimization of an Open Pit Mine Transport System (317) *A. Tenić and Z. Kordić* 321
- 24(1982)**
- Role of Research Work in the Development of Economy and Science (318) *U. Peruško* 5
- Self-Reliance in Technological Development – the Basic Orientation of »Rade Končar« (319) *B. Frančič* 9
- Scientific-Research Work in Industry Shown on the Example of Electrotechnical Institute SOUR »Rade Končar« (320) *D. Mandurov* 15
- The Evaluation of Contribution of Scientific-Research and Development Work (321) *Z. Bobetič* 23
- Flow Stability Conditions in Firebox Tube of a Steam Boiler with Natural Circulation (322) *Đ. Gojković* 29
- Practice of Balancing Turbogenerator Rotors (323) *N. Knezović* 37
- Comparison of Methods for Determination of Nitride Layers Ductility (324) *V. Ivušić and B. Liščić* 61
- Lateral Vibration Analysis of Marine Diesel Engine on Test Bed (325) *I. Senjanović and V. Čorić* 67
- A Hardenability Based Method of Hardenable Steel Selection (326) *T. Filetin* 75
- Corrosion Investigation on Steel Wire for Prestressing of Concrete (327) *Lj. Đukić and I. Esih* 83
- Contribution to the Analysis of Correlation Between the Permissible Unbalance of Rotors and Permissible Turbomachinery Vibrations (328) *M. Butković, A. Vučetić, I. Škrčić and Z. Majetić* 91
- Production Rationalization by Improving Interhuman Relations and General Attitude to Work (329) *D. Krpan* 97
- Dynamic Method of Investment Choices (330) *M. Žaja* 103
- Large Object Mathematical Modelling in Optimal Design of Machine Construction – Elements of Methodology of Creating the Optimizational Models (Engl.) (331) *J. Kowalski* 125
- A Contribution to the Calculation of a Cam Mechanism with a Flat Faced Follower (332) *B. Hufnagl* 133
- Possibilities of Measuring Energy Losses and Stage Efficiency on an Experimental Turbine (333) *B. Staniša* 137
- Problem of Influence of the Fixing Device Upon Rotor Balancing (334) *M. Butković, B. Orčić and J. Đurčević* 147
- Experimental Identification of Power Capacity of Eccentric Press (335) *E. Šehović* 153
- Coupled Torsion Bars in the Spring Suspension System of Passenger Carriages (Germ.) (336) *A. Kęblowski, Z. Marciniak and M. Ofierzynski* 181
- Large Object Mathematical Modelling in Optimal Design of Machine Construction – Optimizational Modelling System for Forging Crank Press (Engl.) (337) *J. Kowalski* 191
- Approach to Design of Welded Pressure Vessels (338) *I. Librić and D. Ivanov* 203
- Potential Method for Determining the Crack Length on Mechanical Breaking Samples (339) *M. E. Russenberg and Đ. Dobi* 211
- Power Characteristics of Turbines (340) *G. Vasilevski* 215
- Testing of Static Flexibility by Dynamic Method (341) *A. Hriješik* 221
- Designing of Transmission Housing (342) *S. Kuzmanović* 227
- An Automatically Controlled Design of the Nut Threading Process (343) *O. Miletić* 245
- Research of Dynamic Loading Capacities of Welds in the Shock Absorbers of Passengers Cars (344) *B. Bytyci* 251
- Experimental Determination of Stresses at the Internal Involute Spur Gear Tooth Root (345) *B. Križan* 255
- Analytical Determination of Compressibility Factor (346) *G. Magazinović* 259
- A Contribution to the Parameter Optimization of Kinetic Pressures of the Dynamic System of Rotation of Rigid Unbalanced Rotor in a Stator Frame on Elastic Supports (347) *B. L. Gligorić and M. L. Gligorić* 265
- Flow Measurement by Winter-Kennedy Method on Hydropower Plants (348) *F. Schweiger and V. Kerčan* 271
- Technology Transfer and Perspectives of Appropriate Technologies (349) *Nada Turina* 277
- New Approach to the Invention of Lubricant for Fine-Edge Blanking (350) *Z. Knežević and S. Živanović* 283
- The Theory of Similarity in the Process of Cold Upsetting (351) *M. Math* 301
- Dynamic Stress of Bridge Cranes when Lifting Loads (352) *D. Šćap* 307
- Testing of Car Engine Characteristics by Using Commercial Petrol and Methanol (353) *S. Čerlek* 317
- The Concentrated Parameter Modelling of the Multicylinder Turbocharged Diesel Engine Thermo-and-Gasdynamics Processes (354) *D. Vučetić, N. Stošić and K. Hanjalić* 321
- Chosen Examples of »Non-Conservative« Solutions for Some Boiler Plants Components (355) *S. Herr* 327
- The Gear and the Shaft Press Fit (Slov.) (356) *J. Flašker, S. Pehan, F. Tomazič and A. Pristavec* 339
- 25(1983)**
- The Operation Strategy for Mathematical Modelling the Gears in the Optimum Design – Theoretical Basis (Engl.) (357) *J. Kowalski* 5
- Testing Results of the Static Rigidity of the Lathe and Radial Drilling Machine (358) *A. Hriješik* 15
- Hard Facing of Valve Seats (359) *K. Kovačević and M. Grbin* 21
- Condensate Pumps in Power Plants (360) *A. Kavicki* 25
- Testing Methods for Feed Pumps of High Parameters (361) *Z. Boljkovac* 31
- Algorithm of the Multiple Plane Balancing of the Turbo Machinery Rotors in their Own Bearings (362) *B. Orčić, I. Škrčić, V. Lepetić and R. Zobec* 37
- Electromagnetic Differential Vibration Exciters with Electronic Control (363) *B. Gligorić and M. Radosavljević* 43
- Choice of Groove Shapes of Welds in Boiler Production (364) *M. Grbin* 49
- A Contribution to the Optimization of Thermodynamic Operation of the Internal Combustion Engine Based on the Criterion of Economy (365) *E. Hnatko* 63
- The Operation Strategy for Mathematical Modelling the Gears in the Optimum Design-Applications. Optimum Design Example of Double-Wave Gears with Flexible Toothed Wheel Rim (Engl.) (366) *J. Kowalski* 69
- Considerations on Point Position with Zero Relative Velocity in the Contact Area of Friction Drives (367) *K. Sivončik* 81
- Modelling, Taxonomy and its Application in Decision Making (368) *J. Božičević* 85
- Application of Electrohydraulic Drives with Systems for Cutting Cold Shaped Profiles and Tubes to Given Lengths (369) *P. M. Janjić* 93
- Selection of Electric Motor and Reducer for a Computer Aided Design of a Driving Unit (370) *S. Kuzmanović, D. Maravić and Dragica Kovačević* 101
- Sound Intensity and Technical Diagnostics (371) *G. Pavić* 105
- Contribution to Methods of Reduction of Mathematical Models of Distributed Parameters Dynamics Systems (372) *N. Šerman* 123
- Process Variation in an Otto Engine (373) *D. Jeras* 135
- Contribution to the Understanding of the Problem of Light Metal Strip Drawing from the Point of View of Strain Distribution in the Plastic Region and the Size of the Critical Value of the Die Angle (374) *A. Povržanović* 141
- Tribological Features in Friction of Polymeric Materials (375) *J. Indof* 149
- Calculation of Natural Circulation with Special Reference to Corner Tube Boilers (376) *M. Prica* 157
- Organization of Information Storage and Retrieval System for CAD (377) *V. Milošević* 161
- The Application of the Matrix Method for Strength Calculations of the Ship's Double Bottom (378) *Janja Kovšca-Obsieger* 169
- Computer-aided Shell and Tube Heat Exchangers Design-System KOCIT (379) *A. Kostelić, D. Marjanović, Đ. Tasevski, N. Šolman and V. Milošević* 177
- Durability Prolongation of Turbo-Drill Thrust Bearing Discs (380) *Ž. Borošak, V. Ivušić and R. Zgaga* 185
- Industrial Engineering – Integral Part of Engineering Sciences (381) *D. Taboršak* 193
- Principles of Some Systems for Identification and Characterization of Engineering Materials (382) *S. Turina* 199

Strength Analysis of Turbine Condenser Water Chamber (383) <i>C. Jaluba and I. Senjanović</i>	205	Optimization of the Assortment of Ferrous Materials in a Metal-working Factory's Godown (419) <i>R. Zgaga, Z. Fijan, T. Filetin, D. Krumes, R. Santić, M. Suško and Radojka Marković-Šerbula</i>	173
Gas Turbines in the Power System of SFR Yugoslavia (384) <i>M. Majcen</i>	215	Application of Adiabatic Models for Pressure Drop Calculations in Boiling Flow Tubes (420) <i>M. Prica</i>	189
Publications in the Field of Fluid Mechanics-Availability in SFR Yugoslavia (385) <i>Kata Husnjak</i>	223	Stiffness of the Damping Turbine Wire-Blade Connection (421) <i>M. Butković</i>	195
Optimizing of Heat and Hydraulic Regime of a District Heating Set in Relation to the Dynamics of Heat Consumption Growth Rate (386) <i>R. Kristić</i>	245	Forming the Project's Goals (422) <i>M. Žaja</i>	199
Proposal or Standardization of Thermal Conductivity Measurements of Plate Insulator Samples with Flat Fluxmeters (387) <i>M. Brezinščak</i>	253	The Comparative Analysis of the Ribbed Circular Plates with the Methods of the Initial Parameters and Photoelasticity (423) <i>Z. Kulenović</i>	207
Machinability of Material Č.1730 and Č.4830.4 in Flat Grinding (388) <i>R. Jelačić</i>	257	Flexible Automation as a Trend in the Development of Machine Tool and Tool Control (424) <i>A. Hriješik</i>	215
A Contribution to the Estimation of Limit Elastic Stability in Centric Pressure Loaded Slender Rods and Structures Composed of Rods (389) <i>Z. Uvanović</i>	261	Influence of the Project Management to the Erection of Industrial Steam-Generators (425) <i>A. Grgić</i>	221
Loadability Calculations of Reduction Gear Output Shaft Sleeves (390) <i>S. Kuznamović and Dragica Kovačević</i>	267	The Structure and Operation of the Electronically-Controlled Fuel Injection System in Marine Engines (426) <i>H. Jurišić</i>	227
State and Trends in Machining of Metals (391) <i>E. Kuljanić</i>	273	On Calculations of the Cooling Plant Filling (427) <i>B. Slipčević and F. Haase</i>	235
Analysis of Oil Film Thickness at Radial Sliding Bearings (392) <i>N. Repčić</i>	283	Application of Methodical Designing in the Development of the Arc Furnaces (428) <i>J. Kovačević</i>	253
Some Characteristic Phenomena of the Product Development (393) <i>B. Gornik</i>	301	Stress Analysis of a Ring-Stiffened Cylindrical Shell under Hydrostatic Pressure (429) <i>D. Štulhofer</i>	263
A Contribution to the Determination of the Quantity of Contact Heat Resistances (394) <i>F. Belegu</i>	307	Material Life Time in Boiler Production (130) <i>S. Herr</i>	271
A Contribution to Identification of the Flexibility of the Lathe Support Structure (395) <i>A. Hriješik</i>	317	Contribution to Analysis of Heat Transfer in Mining Transformers with Axial Cooling Ducts (431) <i>D. Zvizdić</i>	283
An Approach to Rationalization of Technological Processes Design in the Preliminary Phase of Project Development (396) <i>T. Taličić, V. Pucić, D. Marković and M. Tomakić</i>	323	Permissible Manufacturing Unbalance of Diesel Engines (432) <i>M. Butković</i>	289
The Analysis of the Stability of Plates by Means of the Finite Element Method (Slov.) (397) <i>A. Pristavec and J. Flašker</i>	327	Vibrations and Their Excitations on Hand Grinding Machines (433) <i>A. Šestan</i>	297
Problem of Gate Valve Movement Synchronization in Hydro-Systems (398) <i>D. Vujić</i>	333	Vibrational properties of tyres (434) <i>D. Bjelovučić</i>	317
		The Application of Probability Theory to the Gear Drive Design (435) <i>H. Hua-Liang</i>	331
		A Calculation Method for Axially-Torsional Vibrations of the Blade Group of Turbine (436) <i>M. Butković, V. Korenić and D. Kereković</i>	337
26(1984)		Theoretical Analysis of Friction in Fastening Screws (437) <i>B. Sekulić</i>	343
Application of the Theory of Games to Investment Decisions (399) <i>M. Žaja</i>	5	Values and Decisions – a Model of Causal Relation in Design Process (438) <i>S. Nišević</i>	349
Erosion of the Last-stage Rotor Blade Trailing Edges of Large Power Steam Turbines (400) <i>B. Staniša</i>	11	Contribution to Mathematical Modelling and Optimization of Air-Cooled Condensers (439) <i>V. Pržulj</i>	355
A Review of Standardizing Tendencies in the Treatment of Boiler and Unfired Pressure Vessel Rules (401) <i>I. Librić, D. Ivanov and R. Zupanc</i>	21	»Symposium on Design '84« – Scientific and Professional Meeting on the Development and Application of the Science of Design, Computer Aided Design, and Ergonomic Products Design (440) <i>A. Kostelić</i>	363
Computer Aided Calculations of Radial Sliding Bearings under Static Load (402) <i>I. Tasevski, V. Salamon, Z. Herold and E. Oberšmit</i>	29	CAD/CAM – 6th International Symposium »Computer Aided Design/Computer Aided Manufacturing« (441) <i>Z. Haznadar</i>	369
Calculation of Elastic Screw by Means of Computer (403) <i>Z. Herold and Đ. Tasevski</i>	39		
Some Problems in Extrusion of Hollow Aluminium Profiles through Hollow Dies (404) <i>I. Duplančić and J. Prgin</i>	45	27(1985)	
The Use of P18 Elements in the Analysis of the Stability of Plates by Means of the Finite Element Method (Slov.) (405) <i>A. Pristavec and J. Flašker</i>	49	New Possibilities of the Optimal Sewage Water Treatment Process Control (442) <i>B. Rajfer</i>	3
Tool Life of the Twist Drills Produced by Milling, Rolling and Grinding (406) <i>A. Pavić</i>	61	Optimization of Mechanical Design Type Series (Engl.) (443) <i>J. Kowalski</i>	9
Optimum Design of Two-Column Radiator of Central Heating by Nonlinear Programming (Engl.) (407) <i>J. Kowalski and S. Galas</i>	69	Research into the Application of Ergonomic Principles to Job Position in Production (444) <i>D. Taboršak and M. Car</i>	21
The Possibility of the Mounting of Plate Blades in Francis Turbine Runners (408) <i>V. Kerčan and Lj. Bizjak</i>	77	Rod Mechanisms with Two Degrees of Free Movement for Practical Application (445) <i>R. Milošević</i>	27
Investigation into the Influence of Working Conditions of Flat Grinding on the Quality of Ground Surfaces (409) <i>R. Jelačić</i>	85	Numerical Solution of Temperature Field in the Coil of a Transformer (446) <i>R. Šarunac</i>	35
An Estimate of Domestic Boiler Production Technological Possibility to Meet Long-Term Requirements of Non-Nuclear Thermopower Plants (410) <i>I. Librić</i>	91	Erection of the Steam-Generating Plant of Two Units (447) <i>A. Grgić</i>	41
Innovation and Creativity (411) <i>J. Kumerički</i>	99	The Influence of the Calculation Error of the Standardized Time of the Machine Parts Production on the Choice of Technological Equipment When Designing Manufacturing Systems (448) <i>B. Gornik</i>	47
Surface roughness parameters (412) <i>B. Križan</i>	109	Application of the Theory of Similarity in Designing Marine Engines (449) <i>H. Jurišić</i>	51
Minimum-Moving Element Weight Design of Gathering Assembly for the Self-Loading Trailer (Engl.) (413) <i>J. Kowalski and F. Wozniak</i>	125	Testing of Calibration Specimens Used with Stylus Instruments for Measuring Surface Roughness (450) <i>F. Dusman, S. Mahović, V. Mudronja and R. Stančec</i>	67
Inlet and Outlet Blade Angle Turning and its Influence upon the Medium Specific Speed Francis Turbine Characteristics (414) <i>V. Kerčan and Lj. Bizjak</i>	139	Voltage Balance of 10 kV, 2 × 5 g with Uncertainty below 0,5 · 10 ⁻⁶ (451) <i>V. Bego, J. Butorac and G. Gašljević</i>	73
Dynamic Loads of Bridge Cranes (415) <i>D. Šcap</i>	147	Results of the Skidder Efficiency Investigations (452) <i>S. Sever</i>	79
The Intensity of Probe Cooling in the Fluidized Bed (416) <i>A. Galović and M. Andrassy</i>	155	Measuring Results of the Building Material Thermal Conductivity (453) <i>J. Papković and Z. Franolić</i>	87
Static and Dynamic Analysis of the Pipe Structures by Computer Program DDCIJEV (417) <i>T. Jančijev and N. Šolman</i>	161	The Development of the Data Acquisition System (454) <i>M. Boršić</i>	93
Steel Cold Forward Extrusion Technology Analysis (418) <i>M. Šljivić</i>	167	Some Misunderstandings over Physical Quantities and Units (455) <i>N. Kallay and T. Cvitaš</i>	99

Theses for the State Regulation upon Legal Measuring Units (456)	<i>M. Brezinišćak</i>	103	On Some Aspects of the Choice, Purchase, Delivery and Exploitation of the Production Equipment (494)	<i>L. Torma</i>	55
A Proposal for Abbreviating and Uniform Definitions of the International System Basic Units (457)	<i>N. Kallay, T. Cvitaš and M. Brezinišćak</i>	111	Modelling of the Otto Engine Complex Working Regimes for Determining the Poisonous Components Emission (495)	<i>J. Zavada</i>	75
Specific Problems of Disc Brakes Application on Heavier Vehicles (458)	<i>D. Bjelovučić</i>	123	A Method for Better Preparation and Distribution of the Mixture in Ejection Carburetors (496)	<i>E. Hnatko, S. Veinović and M. Kalajžić</i>	83
Dimensionless Stability Charts of the Tool Machine Self-Excited Oscillations (459)	<i>B. Hufnagl</i>	133	Analysis of the Propeller Wind Turbine Operation, the Influence of Radial and Axial Vortexes (497)	<i>Ljiljana Pilić-Rabadan and M. Jelavić</i>	89
Determination of the Proper Values of Free Undamped Vibrations of Line Plane Constructions (460)	<i>J. Brnić</i>	139	A Contribution to the Mathematical Modelling of the Screw Compressor Operating Process (498)	<i>N. Stošić, K. Hanjalić and Jelena Koprivica</i>	95
Reconstruction of Condensing Thermopower Plants into Thermopower Heating Plants (461)	<i>B. Staniša</i>	145	Excitation Forces at the Vibrations of Elastic Based Diesel-generator Sets (499)	<i>M. Butković</i>	101
Automation and Its Economic Aspects (462)	<i>Z. Stuhne and Slobodanka Trbojević-Gobac</i>	153	Analysis of the Joint Separation by a Keyed Flange Pin (500)	<i>G. Molnar</i>	107
Review of the Standardization of Tappers, Related Problems and Economical Effects (463)	<i>B. Mitrović</i>	161	Water Quality Conditions in Power Plants with Low and Middle Pressure Boilers (501)	<i>I. Bikfa</i>	111
Acceleration Moment Analysis of the Cut Strip Coiling Machine Drive Used in the Technological Line for Continuous Longitudinal Cutting (464)	<i>P. M. Janjić</i>	167	Safe Service of the Flue Package Boilers with Respect to Water Side Sediments (502)	<i>Ž. Milobar</i>	117
The Analysis of Tribologic Losses in the Printing Industry of the SR Croatia (465)	<i>G. Marošević</i>	179	Determination of the Fracture Cause on the Waggon Shaft Sleeve (503)	<i>Z. S. Mihajlović</i>	123
Investigation of the Most Favorable Model of the Machine Equipment Maintenance in the Cellulose and Paper Production (466)	<i>D. Soldat</i>	185	A Systematic Approach to a Concept of an Education Process (504)	<i>A. Kostelić</i>	147
Use of Wind Energy (467)	<i>Ljiljana Pilić-Rabadan</i>	193	A Contribution to the Analysis of Electrode Clamping in Arc Furnaces (505)	<i>J. Kovačević</i>	155
Unconventional-Regenerative Energy Resources (468)	<i>D. Krpan</i>	199	Characteristic Involute Tooth Profile Points (506)	<i>Gordana Marunić</i>	161
Increase of Oil- or Gas-fired Block Boiler Efficiency (469)	<i>Ž. Milobar</i>	213	Seismic Analysis of the Stationary Boiler Structure (507)	<i>T. Jančijev and N. Šolman</i>	165
The Experimental Determination of Thermal Characteristics of Oil-Air Type Heat Exchanger (470)	<i>R. Šarunac</i>	221	The Choice of the Most Convenient Manufacturer and Best Types of Lorry Types for Open Iron Ore Mine Pits (508)	<i>Đ. Šavanović and D. Soldat</i>	175
Approximate Analytical Method of Computation of Optimal Rocket Engine Supersonic Nozzle Contour (471)	<i>M. Kevo</i>	225	Computer-aided Design of Screw Compressors (509)	<i>N. Stošić, K. Hanjalić, Jelena Koprivica, N. Lovren and M. Ivanović</i>	181
Energy Sources in the SAP Kosovo (472)	<i>M. Sefaja</i>	231	Chemical Processes of the Chemical Water Treatment for Low-Pressure and Medium-Pressure Boiler Plants (510)	<i>I. Bikfa</i>	189
The Road Lighting-up by Passenger Car Headlights (473)	<i>N. Čargonja</i>	251	Sensitivity of Balancing Machine Force Transducer (511)	<i>M. Butković</i>	199
Thermal Efficiency of Real Stirling Process (474)	<i>A. Korbar</i>	255	Illustration of the Sever Computer Program for the Core Sheets (CDL) Plotting (512)	<i>S. Kuzmanović, Estera Baranji and I. Barat</i>	203
Influence of the Eccentric Holes to the Stress Concentration Factors of the Rotating Discs (475)	<i>B. Bajrić</i>	261	A New Approach to the Industrial Product Quality (513)	<i>F. Dusman</i>	219
On Some Principles of the Closed Vessel Evacuation (476)	<i>L. Torma</i>	267	A Contribution to Investigations of the Relationship between Stresses and Deformations of the Artificial Leather with a Textile Base (514)	<i>M. Skoko</i>	223
Wear of Indexable Carbide Inserts during Turning Operations (477)	<i>A. Pavić</i>	273	Optimization of Feed Drives for NC-Machine Tools (515)	<i>R. Motika and D. Ciglar</i>	229
Engineers for the Twenty-first Century (478)	<i>I. Čatić</i>	279	The Application of a Transmission Electronic Microscope in the Control of Steel Microstructure (516)	<i>Irena Leljak and F. Kovačiček</i>	235
Knowledge as a Condition of Existence (479)	<i>J. Božičević</i>	289	Modern Technological Development and Yugoslav Industrial Production (517)	<i>T. Šurina</i>	245
An Operation Model-Based Dynamics Problem-Solving in Machine Design (Engl.) (480)	<i>J. Kowalski</i>	307	Possibility of Using the Monte Carlo Method for Area Determination of Various Form as the First Step in the Image Analysis (518)	<i>S. Turina</i>	251
Basic Principles of Material Erosion in Steam Turbine Blades due to Impingement of Water Droplets (481)	<i>B. Staniša, O. Aleksijević-Povarov and V. Aleksijević-Riženkov</i>	313	Flexibility and Automation – Distinctive Features of Modern Manufacturing Systems (519)	<i>Z. Palunčić, K. Benzinger and A. Kirchheim</i>	261
Application and Evaluation of the Boiler Extended Heat Exchanging Surfaces (482)	<i>G. Nuić</i>	319	Postprocessor Generator for Numerically Controlled Machine Tools Programming (520)	<i>M. Cvjetičanin</i>	291
Comparison of the Thermal Processes on the Basis of the Thermal Efficiency and Theoretical Work (483)	<i>A. Korbar</i>	327	Organization of Production Operating Activities and Technical Functions in a Self-Management Organization of Work (521)	<i>B. Gornik</i>	301
Air Pollution from Thermopower Plants and Motor Vehicles and Ways of Protection (484)	<i>Nada Turina</i>	333	Computer Application for Technology Development for Conventional Machine Tools (522)	<i>M. Dill, M. Abramović and K. Rafael</i>	307
Reconstruction of the Most Stressed Parts of Steam Boilers and Turbines with the Aim at the Extension of Their Operating Lifetime (485)	<i>Z. S. Mihajlović</i>	341	Flexible Automation in Special Purpose Machine Tools (523)	<i>Đ. Jaković, B. Milčić, M. Baković and M. Čavka</i>	315
The Influence of the Value of the Driving Factor on the Choice of Gear Size (486)	<i>S. Kuzmanović and L. Kutri</i>	347	Flexible Automation in Small Batch and Serial Production of Prismatic and Rotary Parts (524)	<i>D. Đurović and B. Gašparac</i>	323
A Tool for the Six Door Handle Casting (487)	<i>M. Brozović</i>	355	Flexible Machining Systems on the Basis of CO ₂ -Laser (525)	<i>D. Đurović</i>	335
28(1986)			Development of Control Systems (526)	<i>J. Radej</i>	341
Thermal Fatigue of Hot Working Tool Steels (488)	<i>F. Cajner</i>	5	Engineering Design Process of Production Systems in Metal-working Industry (527)	<i>T. Talijić, Đ. Balabušić and V. Pucić</i>	347
Application of the Laser Beam to the Surface Transformation Hardening of Steel and Gray Iron (489)	<i>B. Liščić, F. Cajner, Dunja Soldo and K. Švenda</i>	13			
Mathematical Model for the Calculation of Boiler Circulation (490)	<i>M. Prica</i>	23			
The Study of the Cause of the Boiler Tube Fracture (491)	<i>Vjera Novosel-Radović, Ana Iharoš, Barbara Krajcar and Nada Nenadić</i>	29			
On the Accuracy of Measurement by Seismic Vibration Transducers (492)	<i>G. Pavić</i>	35			
Austempered Ductile Iron-A New Material in Machine Building (493)	<i>B. Liščić</i>	45			

Metal-working Industry Staff Education in Metal Cutting Process (528)	<i>M. Cvjetičanin</i>	353	Modern Lubrication, Sealing and Securing of Bearings with Hydrodynamic Lubrication – Morgoil Bearings (564)	<i>N. Tasić</i>	263
Shaving Conveyors (529)	<i>K. Velebir</i>	359	Comprehensive Reading – the Basic Need of a Future Engineer (565)	<i>Davorka Marinić</i>	269
The Influence of Carbon Potential Control on the Carburizing Productivity and Quality (530)	<i>F. Kršinić</i>	387	Grinding Dynamics and Grindstones Steadiness when Shaping the High-speed Steel by Grindstone of Different Structures (566)	<i>B. Kršljak</i>	273
Description of Laboratory Testing of Automation System Function for Industrial Steam Power Plant Šipad-Maglič (531)	<i>M. Gemić, N. Čukman, M. Debeljak, J. Draganić and G. Ilakovac</i>	395	Some Aspects of Measuring Sensitivity of the Rigid Balancing Machine (567)	<i>Z. Vukelić</i>	277
Operating Mechanism for Vacuum Circuit-breakers (532)	<i>R. Milošević</i>	403	Erosion and Erosion-corrosion Damages in Steam Turbines (568)	<i>B. Staniša, M. Dičko, Mirjana Fudurić-Jelača and Đ. Savić</i>	285
Technical and Organizational Prerequisite Conditions to the Development of Production Information System (533)	<i>I. Karabačić</i>	411	Model Designing by Use of CAD/CAM System (569)	<i>V. Hristov and Z. Cetinjanin</i>	295
Application of Mechanical Similarity in the Development of the Product Family (534)	<i>J. Kovačević</i>	415	Some Aspects of the Classification of Work Subject in Complex Manufacturing Systems (570)	<i>N. Trbojević</i>	301
Computer in Research and Development (535)	<i>Marija Šantak</i>	421	Trends in Technological Development of New Materials (571)	<i>Nada Turina and Z. Stuhne</i>	305
Standardization of Environmental Conditions – New Dimension of Development and Use of Products (536)	<i>V. Kurelec and D. Šešček</i>	425	Noise Reduction in Small Agricultural Tractors (572)	<i>Ž. Zadro</i>	311
Computation and Measurements of Earthquake Resistance of High Voltage Circuit Breakers (537)	<i>I. Štahan</i>	433	Analysis of Cracking Causes of Lifting Jack Stabilizer Pistons (573)	<i>Vasvija Hrelja, A. Juvan and Hatida Babahmetović</i>	317
Quality is Becoming an Indispensable Prerequisite for the Manufacture (538)	<i>I. Jelinić</i>	441	Burners Using Coal Dust for Ignition and Fire Maintenance in Steam Generators (574)	<i>Z. S. Mihajlović</i>	323
The Influence of Carbon Presence on Cold-rolled Steel Surface on the Quality of Organic Productive Coatings (539)	<i>M. Vinceković</i>	445	Improvement in Combustion of Domestic Coals on Flat and Inclined Boiler Grads (575)	<i>Đ. Delikladić</i>	329
29(1987)					
Precipitation Hardening of Al-Zn-Mg-Alloy with Raised Content of Zn and Mg with Added Cu (510)	<i>B. S. Aparnik</i>	3	Improvement of Material of Agricultural Machinery with Regard to the Phase of Use and Liquidation (576)	<i>A. Pintarić</i>	5
Optimum Weight, Stiffness and Stress Equalization Design of Cast Grids for Measuring Residual Stresses (Engl.) (541)	<i>J. Kowalski and L. Halamus</i>	13	The Erosion of a Slurry Pump Part (Engl.) (577)	<i>Hong Qing Lou and P. Dukić</i>	13
Application of Detonation Waves for Cleaning Flue Gas-side Boiler Heating Surfaces (512)	<i>I. Smajević and K. Hanjalić</i>	21	Heat Energy Control in Kilm Chambers (578)	<i>M. Primorac</i>	19
A Contribution to the Application of Microcomputers when Optimizing Oscillatory Parameters of Motor Vehicles (543)	<i>M. Demić</i>	35	Graphic Interpretation of Tool Machine Self-excited Vibrations (579)	<i>B. Hufnagl</i>	25
The Construction of the Truck Automatic Turbo Gear Box (544)	<i>B. Krstić</i>	41	Profile Correction by the Use of Tooth Deflection Method (580)	<i>Gordana Marunić</i>	29
Testing of Influences of Fabrication Processes and Service Conditions to Surface Welds Made of Austenitic Stainless Steel (545)	<i>S. Crnogorac and I. Rožanić</i>	47	Specific Problems Encountered when Optimizing Cooling Cycles (581)	<i>F. Belegu</i>	35
The Occurrence of Fan Blade Fractures in the Thermo-Power Plant Cooling Tower (546)	<i>Z. S. Mihajlović</i>	55	Optimisation of a Steam-generating System in Varying Operating Conditions (582)	<i>Z. Prelec</i>	45
A Contribution to Investigations of the Man-Machine-Environment System in the Textile Industry (547)	<i>M. Skoko</i>	83	Bunkers for Storing Coal Powder for Ignition and Fire Support in Thermal Power Plant Steam Generators (583)	<i>Z. S. Mihajlović</i>	51
Strength Calculation of Pressure Vessels Heads by Means of Digital Computer (548)	<i>J. Sorić and Z. Virag</i>	91	Influence of Microstructure on Abrasion Wear Resistance (584)	<i>V. Ivušić</i>	69
Application of the Complex Numbers in Thermodynamics (549)	<i>F. Belegu</i>	99	Analysis of Utilization Rate of Semi-products during the Processing Stage (585)	<i>M. Kukuruzović</i>	77
Development of Steam Turbine Production in Yugoslavia (550)	<i>M. Butković and B. Staniša</i>	107	Methodical Decision-Making in Selection of Materials (586)	<i>T. Filetin</i>	83
Computers in Welding (551)	<i>B. Kovačević</i>	119	The Analysis of Criteria for Selection of Material in Engineering Practice (587)	<i>M. Franz</i>	91
The Rolling Heat and the System Efficiency for its Withdrawal (552)	<i>N. Tasić</i>	125	Assortment Optimization for Purchased Goods Exemplified on a Bolt (588)	<i>R. Zgaga</i>	97
Supplement to the Mathematical Modelling of the Humid Air Condition (553)	<i>G. Vasilevski</i>	135	Computerized System for Selection (CAMS) and Management of Materials (589)	<i>T. Filetin, R. Zgaga, R. Santić and D. Krumes</i>	103
Analysis of Numerical Methods for Transient Vibration by Mode Superposition Method (551)	<i>Z. Lozina</i>	155	Selection of Materials in Designing in Dependence on Manufacturing Method (590)	<i>Milka Javor</i>	109
A Polyoptimization Problem for Cone Clutch Design (Engl.) (555)	<i>J. Kowalski and J. Lewiński</i>	167	Data Base as a Basis for Constructional Application of Polymeric Materials (591)	<i>J. Indof</i>	115
Investigations of Technological Process of Depositing Composite Coatings Suitable for Grinding Tools (556)	<i>Melita Kunst and A. Kauzlaric</i>	175	Optimum Design Parameters of Level-Luffing Crane Mechanism (592)	<i>D. Šćap and M. Manoš</i>	131
A Study of Parameter Affecting the Continuous CO ₂ -Laser Cutting (Engl.) (557)	<i>B. S. Yilbas and Zahide Yilbas</i>	179	Composition Monitoring of Aluminium Alloys during Processing (593)	<i>S. Turina, Višnja Vranković, I. Uršić, F. Kovačiček and Mirjana Ugarković</i>	139
On the Principal Stresses in the Plane State of Stress (558)	<i>D. Štulhofer</i>	185	Application of Logical-Probability Models for Reliability Calculation of Complex Technical Systems (591)	<i>V. Stevanović and Lj. Papić</i>	149
Data Preparation for Reliability and Availability Analyses of Composite Systems (559)	<i>M. Macek and B. Cvitković</i>	191	Hydraulic Turbine with Two-blade Channel (Germ.) (595)	<i>Z. Hosszúrétý</i>	157
Checking of Functioning and Maintenance Based on the Conditions of Hydrodynamic Floating Bearings (560)	<i>N. Tasić</i>	197	Development and Design of Mechanical Braking Systems for Rail Vehicles (596)	<i>L. Ograjšek</i>	163
Influence of the Grinding Wheel Cutting Surface Profiling on Grinding Forces and Ground Surface Roughness (561)	<i>R. Cebalo</i>	237	Corrosion Behaviour of Special High Alloyed CrNi Cast Steel in 20 % Sulphuric Acide (597)	<i>Mirjana Fudurić-Jelača, Marija Soldo, Marija Vulić and R. Banai</i>	171
A Mathematical Calculation Model of the Cooling Intensity of a Probe in the Fluidized Bed (562)	<i>A. Galović</i>	247	Steam Turbine Production in Jugoturbina (598)	<i>B. Staniša</i>	177
Identification System for the Basic Data Base as a Basis for Automatic Data Processing and Standardization of Business Process (563)	<i>B. Mitrović</i>	255	Effects of Cross-roughness on Cold Rolling Process with Grades (599)	<i>D. Čurčija</i>	191

- Two Aspects of Standardization Process in a Complex Manufacturing System (600) *N. Trbojević* 197
- A Review of Manufacturing Documentation Reconstruction for Nuclear Power Plant Spare Parts (601) *M. Macek, M. Prica, M. Basara and R. Bokun* 201
- Methodology of Flexible Manufacturing System Construction (602) *D. Đurović and B. Milčić* 223
- Transport Control Design of a Flexible Manufacturing System (603) *M. Cvjetičanin, R. Vulin, Ž. Đurašević, Sanda Car and S. Dragić* 229
- Computer Aided Design of Flexible Machining and Manufacturing System (604) *Ž. Posilović, Tatjana Juriša, M. Čavka, M. Cvjetičanin, Z. Đurašević and Sanda Car* 237
- Industrial Robot Programming in Assembly Using GT Approach (605) *D. D. Šešlija* 243
- Flexible Automation in Heat Treatment of Metals (606) *B. Liščić* 249
- Flexible Processing Systems for Injection Moulding of Polymers (607) *I. Čatić* 257
- Implementation Problem of Control Algorithms for Intelligent Robots (608) *D. Zorc* 263
- Automated Line for the Production of a Service Knife (609) *T. Šurina, Ž. Mažuran and D. Siščan* 267
- 31(1989)**
- Selection of Machining System of a higher Technological Level in Pump Production (610) *B. Josipović* 7
- Some Considerations of the Choice of Profile Correction in Involute Gears (611) *J. Obsieger* 17
- The Optimal Blade Shape of a Wind Turbine (612) *Ljiljana Pilić-Rabadan and M. Jelavić* 25
- Experimental Investigation of Heat Exchanger with Plastic Tubes (613) *M. Žakula and N. Afgan* 29
- Expert Systems and their Use in Mechanical Engineering (614) *O. Muftić and K. Sivočnik* 37
- Development and Application of a Mathematical Model of the Electrode Pitch Granules Drying Process (615) *V. Pržulj, N. Stošić and S. Vasić* 45
- Controlled Gas-Nitriding of Parts and Tools (Germ.) (616) *W. Lerche and A. Spengler* 55
- Application of Steam Turbines in Wood Processing Industry (617) *B. Staniša and M. Anić* 65
- Product Theory – the Scientific Basis for Product Development (618) *A. Kostelić* 105
- Possibilities for Production and Exploitation of Biogas in Cattle Breeding (619) *A. Galez* 113
- Determination of the Optimum Belting-speed for Belt Drive (620) *B. Sekulić* 119
- Reliability of Standardized Processes in Production System (621) *N. Trbojević* 123
- Seismic Analysis of Nuclear Power Plant Mechanical Equipment (622) *B. Cvitković, M. Macek and B. Kralj* 127
- Longitudinal Correction of the Gear Tooth (623) *Gordana Marunić* 133
- Modal Synthesis (624) *Ž. Lozina* 137
- Extension of Exposure Time to Vibrations for Drivers of Small Agricultural Tractors (625) *Ž. Zadro* 149
- Determination of the Geometry of Crane Rails by Geodetic Methods (626) *Z. Kapović and I. Fanton* 155
- Research of Performance Rating Influence on Measured Time Reality (627) *Davorka Filipušić* 183
- Applicability of Variational Method with Non-Uniform Plastic Deformation (628) *P. Čosić* 189
- Industrial Engineering in New Production and Technological Conditions (629) *D. Taboršak* 199
- The Compact Formulation of Dynamic Anthropomeasures (630) *O. Muftić and J. Labar* 207
- Computer Aided Calculations of HLP-Bearings for Precise Machine Tools (631) *R. Zdenković, T. Lechpammer and D. Raos* 215
- Determination of Tooth Contact Pressure Distribution in Worm Gear Drives (632) *M. Opalić, M. Husnjak and Ž. Goja* 225
- Programme Package for Designing of Manufacturing Systems (633) *B. Vranješ, B. Jerbić and Z. Kunica* 229
- Optimum Design of Level-Lufting Crane Mechanism (634) *D. Šćap* 237
- Analytical Solution of the Problem of Heat Transfer Between Three Streams (635) *B. Kancir* 245
- Alternative Working Forms and Delegation of Competences (636) *D. Mikšić* 251
- Erosion of Rotor Blades in District Heating Steam Turbines and Methods of Protection (637) *B. Staniša* 259
- Life Estimation of Low Pressure Turbine Blades (638) *M. Butković, B. Orčić, I. Škrtić and B. Kralj* 267
- The Role of Production Organization in Flexible Automation (639) *B. Gornik* 273
- One Approach to Determination of Furnace Temperature Field (640) *V. Martinis and Z. Jović* 277
- Laboratory for Design Foundations at the FSB – Modern Concept of Space Requirements for Design Science Development and Designers Education (641) *A. Kostelić* 285
- Heat Pipe Theory (642) *Z. Guzović and M. Majcen* 289
- A Functional Approach to an ESP Text (643) *Đurđa Branica-Todorić* 297
- Algorithm as an Element for More Efficient Comprehension of Professional Literature in a Foreign Language (644) *Marela Hercezi-Skalicki* 303
- 32(1990)**
- A Contribution to the Analysis of the Cold Profile Planetary Rolling (849) *D. Capurin* 5
- Algorithm for Optimization on the Network Critical Path (850) *A. Tenić* 11
- Mathematical Modelling and Experimental Investigation of Refrigeration Screw Compressor Working Process (851) *N. Stošić, K. Hanjalić, A. Kovačević, Jelena Koprivica and Z. Marijanović* 17
- Using Modified Fuels to Decrease Environment Pollution from Vehicles as a Contribution to the Increase of Foreign Trade by Tourism Development (852) *Nada Turina* 27
- Current Trends of Development, Application and Safety in Robot Technique in Japan (853) *K. Sivočnik* 35
- Application of Nomograms for Conversion of Measuring Data Expressed in Non-Standardized Measuring Units (854) *Z. Jakobović* 43
- Elastodynamic Research of a Machine Set Under Non-Stationary Conditions and Varying Parameters (855) *Xh. Perjuci* 49
- Machine for Cable Spiralization (856) *Ljiljana Cvjetičanin, M. Zlokolica, Z. Lisulov and D. Mezei* 57
- Optimal Conditions Defining of Titanium Welding (857) *I. Grgac* 93
- Efficiency Increase of Gas Turbine by Introducing Steam into Combustion Chambers (858) *R. Jovanović* 99
- Determining Optimum Cutting Data for Machining Whiteheart Malleable Iron (859) *Š. Šavar* 105
- Effect of Interfacial Transfer Correlations in a Model of PWR EEC-Bypass (860) *N. Popov and N. Afgan* 119
- Coding System in Complex Production System (861) *B. Gornik* 127
- The Gibbs' Fundamental Form and the First Main Law of Thermodynamics (862) *Ž. Parat* 131
- The Interaction of Strengthening, Softening and Precipitation Mechanisms during Final Thermomechanical Treatment of Nb-Microalloyed Steel (863) *Stoja Rešković and A. Preloščan* 137
- Solid Waste Material Handling – Technical Problems and Solutions (864) *Č. Olučić and Č. Čeak* 145
- Method of Structure Selection for the Object in Mechanical System Optimum Design (Engl.) (865) *J. Kowalski* 185
- A Method for Repair and Regeneration of Erosively Worn Final Stage Moving Blades (Engl.) (866) *W. Storch, F. Mühl, W. Kuhn and G. Blum* 195
- Modelling Flexible Manufacturing Systems Using JOB-SHOP Simulation (867) *J. Dekleva and M. Gaberc* 203
- Stresses in Axially Loaded Cylindrical Shell with Two Square Holes (868) *Z. Kulenović* 209
- Optimization of Plate Heat Exchangers as a Part of the Cooling System with Fresh Cooling Water and Sea Water (869) *I. Rubeša* 215
- Application of the Second Grade Theory in Determining the Load on the Guiding Ways of the Piston and Connecting-Rod in a Hydraulic Cylinder (870) *A. Gak* 223
- Efficiency of Steam Boilers (871) *Ž. Milobar* 227
- Turbine Blades Manufacturing by CAD/CAM System (872) *Z. Cetinjanin and V. Hristov* 231
- Operational Characteristics of the Axial Wind Turbine (873) *Ljiljana Pilić-Rabadan and D. Vučina* 253
- Proposition for a General Formula of Fatigue Limit of Machine Parts (874) *D. Jelaska* 257
- Influence of Residual Stresses on the Fatigue Strength of Welded Structures (875) *V. Grubišić and Ž. Domazet* 263
- Torsion of Thinwalled Bars of Open Section on Discrete Elastic Foundation (876) *R. Pavazza* 269

- Mathematical Model of Remotely Operated Underwater Vehicle (877) *D. Stipančević and Ž. Domazet* 277
- Appropriateness of Mixing Molten Steel Concrete with Inert Gas (878) *R. Deželić, B. Videk, Inga Stojković and F. Baletić* 285
- The Effect of Welding Parameters and Heat Treatment of N-A-XTRA Steel Welded Joints on Some of their Mechanical Properties (879) *N. Mišina* 291
- On Underwater Welding (Part One) – Development and State of the Art of Wet Underwater Welding (880) *N. Krnić* 301
- Laboratory for Flexible Manufacturing Systems on FESB-Split (881) *R. Rován and I. Veža* 309
- Stress Analysis of Transverse Sections of Beam Elements Subjected to Static Loads (882) *J. Brnić* 325
- Supercharging of High Speed Diesel Engines – Research of Optimum Possibilities (883) *N. Škifić* 331
- Maximum Roto Stresses of Spur Gear Tooth (884) *Gordana Marunić* 341
- Effect of Heat Treatment and Size of Teeth on Cuttability of Band Saw Blade (885) *E. Kuljanić* 347
- The Coincident Redundant Multiplex (886) *B. Ostojić* 353
- Optimal Position of the Tongue of Spiral Casing of the Francis Turbine (887) *L. Sopta* 357
- Essential Regularities and Mechanism of the Metal Erosion Process in Wet Steam Flow (888) *B. Staniša, O. A. Povarov and V. Ivušić* 363
- Power Plant Process Data for EPP Described with *n*-Dimensional Random Values (889) *J. Šimunić* 369
- Analysis of the Hygroscopic Layer of the Multilayer Material of the Accumulation Mass of the Wet Rotary Regenerator (890) *J. Pirš, Loreta Pomenić, B. Franković and A. Zalar* 375
- Optimization of the Treatment of Steel Plate Edges for Welding by Special Tool Machines (891) *A. Hrišnik and A. Šestan* 385
- The Role of Yield Strength and Fracture Toughness on Material Constructive Strength (892) *B. Smoljan* 391
- Application of Modeling Knowledge-Based System to Optimum Design of a Tractor Diesel Engine (Engl.) (893) *J. Kowalski* 409
- Quality Assurance of the Industrial Product at the End of the 20th Century (894) *F. Dusman* 417
- On the Control of Flexible Manipulator Arm (895) *J. Petrić and V. Kecman* 425
- Heat Pipe Application Possibilities (898) *Z. Guzović and M. Majcen* 433
- Classification System for Machine Building Industry (896) *B. Gornik* 443
- Historical Development of the Meaning of Alternative Working Forms (897) *D. Mikšić* 447
- Definition and Importance of the Worker's Continuous Learning and Practising of Manual and Machine-Manual Operations (899) *M. Car* 457
- Contribution to the Study of Temperature Influence on Specific Heat Capacity and Calorific Value of Natural Gas Used in Sarajevo (900) *M. H. Rešidović* 465
- 33(1991)**
- Possibilities of Using Heat Rod Model For Transient Analysis in Nuclear Reactor Coolant Channel (901) *M. Kozarić and D. Feretić* 5
- The Influence of the Gear Ratio on the Smoothness of Gear Motor Operation (902) *L. Kutri* 11
- Linear Diagram Method (903) *A. Tenić* 17
- Some New Results of Investigation and Application of Detonation Waves for Cleaning Boiler Heating Surfaces (904) *I. Smajević and K. Hanjalić* 23
- Synthesis Fluidic Digital Automat for Mechanical Arm in the Hot Strike (905) *O. Miletić* 31
- Presentation of the Development Process of a Family of Toothed Gearing (906) *S. Kuzmanović and Ivana Pavlović* 37
- Eco-Machine Tools (907) *S. Sokolović and Radmila Šećerov-Sokolović* 43
- Contribution to the Method of Dynamic Optimization of the Rail Vehicles Planetary Gearbox (908) *D. Blagojević* 49
- A Contribution to Application of Upper Bound Elemental Method in Axisymmetric Forging Process (909) *M. Math* 69
- Development of the Industrial Robot Simulation Model (910) *M. Crneković* 75
- Heat Exchange by Radiation and Temperature Field of Fire-box Wall as Complex Surfaces with Tubes and Brickwork (911) *V. Martinis and Z. Jović* 83
- Influence of Cleaning on Appearance of Internal Stresses of Radiator Elements (912) *I. Budić, Z. Bonačić-Mandinić and D. Momčilović* 93
- Contribution to Automated Assembly System Planning (913) *B. Vranješ, B. Jerbić and Z. Kunica* 97
- Slip Correlation Influence on Flow Calculation in Heat Exchange Section of a Nuclear Steam Generator (914) *Ž. Bogdan* 111
- Modeling of Dynamics and Control System Design of Two-Phase Circulation System of Steam Generator (915) *V. Kecman, J. Petrić, D. Majetić and M. Široki* 117
- Sustained Ship's Speed Optimization Model for Optimum Hull Form (916) *M. Čuvalić* 125
- Fundamentals of Dimensional Synthesis of the Steering Linkage with Idler Arm for Motor Vehicles (917) *N. Buktenica* 135
- Applicability of the Slab Method of Stress Analysis for Rotational-symmetric Forging during Closed-Die Forging (918) *P. Cosić* 143
- The Application of Viscous-Coupling in Integral Transmission Complex (919) *D. Bjelovučić* 151
- Strength Analysis of Steel Doors for Shelters (920) *R. Grubišić, Y. Fan and V. Pušić* 159
- Systematic Approach to the Development of Complex Constructions (921) *B. Vabić* 197
- Pressure Fluctuations in Fluidized Bed Coal Combustors – Effect of Immersed Tubes (Engl.) (922) *A. Bobovnický* 203
- Finite Element Analysis of Multipass Shell-Tube Heat Exchanger with Single Segment Baffles (923) *V. Kraljević* 209
- Computation of Centrifugal Fans with Frame Casings (924) *B. Brkić* 217
- Introduction and Use of CAD-System (925) *I. Štambuk* 223
- Simulation of Flexible Manufacturing Systems with New Control Principles (926) *D. Ciriviri, J. Košturiak and N. Kapetanović* 231
- A Contribution to the Analysis of Wall Thickness Changes of Steel Tubes in Sizing Lathes (927) *B. Mišić* 237
- Organization and Application of the Design Catalogs for Bearing-complex of Wheels and Axle (928) *M. Kljajin* 243
- The Analysis of the Heat Transfer Problem Among Four Streams *B. Kancir* 277
- Basis of the Construction and Computer Aided Calculations of EHL- bearings for Precise Machine Tools (930) *R. Zdenković and T. Lechpammer* 283
- Influence of Microstructure on Thermal Fatigue Resistance of Hot-work Tool Steels (931) *F. Cajner* 289
- Erosion Resistance of Hard Surfaces (932) *M. Jakovljević, Mirjana Ugarković and V. Ivušić* 297
- Heat and Mass Transfer at a Heat Pipe (933) *Z. Guzović* 303
- Modelling of Elastoplastic State in a Continuum by the Finite Element Method (934) *D. Pustaić and B. Štok* 315
- Approach to Design of an Automatic Assembly Line (935) *T. Šurina* 325
- The Possibility of Realizing Stable Fluidized Beds Using Low Pressure Drop Distributor Plates (936) *M. Ruševljan and A. Galović* 333
- Establishing of Quality Circles (937) *D. Mikšić and B. Vranješ* 337
- Engineering, Quality Assurance and Ecology (938) *S. Kralj and Vjera Krstelj* 343
- Definition and Importance of Training with Breaks of Worker's Manual and Machine-manual Operations (939) *M. Car and Davorka Filipušić* 349
- Computerized Tribology Information Systems (940) *V. Ivušić and T. Filetin* 357
- 34(1992)**
- General Tensor Approach to Strength Theories and Yield Criteria in Isotropic Materials (941) *I. Alfrević* 5
- Dynamic Anthropometry in the Biomechanical Work Analysis (942) *O. Muftić, P. Keros and Z. Božić* 9
- Repeatability and Reproducibility in Length and Angle Measurements (943) *F. Dusman and V. Mudronja* 13
- Analytic Solution for Unsteady Cooling of an Infinite Cylinder (944) *S. Švaić, Ž. Ivezić and M. Bastelić* 21
- A Contribution to the Investigations of the Stresses of the Workers in the Textile Industry (945) *M. Skoko* 25
- Investigation of Pipe Steel Flow Stress and Limit Deformability by Means of Hot and/or Cold Tensile Test (946) *M. Golja and I. Mamuzić* 31
- Automatization of Projecting Technological Processes in the Frame of CAM Concept (947) *B. Gornik* 37
- Longitudinal Strength Analysis of Ship in a Floating Dock (948) *I. Senjanović and Š. Malenica* 41
- Generalized Definition of Exergy (949) *Ž. Parat* 49
- Control Synthesis and Simulation of Industrial Robot of RRTR-Structure (950) *B. Novaković and Susanna Matasić* 53

Gear Optimization (951)		Sizing of Compressed Air Systems and Pipings (989)	
<i>M. Opalić, D. Marjanović and Z. Kolaček</i>	59	<i>Z. Poša</i>	73
High Technologies and the Education of Production Engineers (952)	<i>T. Šurina</i> 65	Application of Dilatometer LK.02 in Material Research (990)	<i>M. Gojić</i> 77
Simulation of Turbocharged Diesel Engine Driving Electric Generator under Dinamic Working Conditions (953)	<i>V. Medica</i> 89	Contribution to Automatic Programming for Numerically Controlled Machine Tools (991)	<i>T. Udiljak</i> 97
The Dependence of Constructive Strenght on Structure of Steel Č.4732 (954)	<i>B. Smoljan</i> 101	Influence of the Shear on Torsion of a Thin-Walled Rod of Open Cross-Section (992)	<i>R. Pavazza</i> 103
Determination of Involute Cylindrical Gear Geometry Based on the Sliding Power Loss Minimum (955)	<i>B. Križan</i> 105	Heat Transfer Analysis in Dry Rotary Heat Exchanger (993)	<i>B. Franković</i> 111
Mechanism of Abrasive Erosion of the Turbine Blades (956)	<i>B. Staniša</i> 109	Application of the Complex Equation of Motion on the Guided Missile with the Pulse Width Modulated Signal (994)	<i>S. Janković</i> 121
Measurement of the Double Internal Braking Radiation (Bremsstrahlung) (957)	<i>J. Dobričić</i> 117	Q-GERT Ship Sales Negotiation and Project Planning Model (995)	<i>N. Fafandel</i> 127
Heat Transfer Analysis in Wet Heat Regenerator with Nonhygroscopic Storage Matrix (958)	<i>B. Franković</i> 121	Analysis of a Two Vehicle Collision Kinematic Parameters (996)	<i>R. Grubišić</i> 133
Tip Vortex Cavitation Estimation at the Blade Design Using Circulation Methods (959)	<i>Alice Vučinić</i> 133	The Continuous Casting of Steel – Present Status and Trends in the Further Development (997)	<i>J. Krajar</i> 143
Numerical Modelling of Si-PN-photodiode Impuls Response (960)	<i>Vera Gradišnik</i> 137	An Experience of CAM – Implementation in Metalwork Industries (998)	<i>K. Sivončik</i> 151
Technical Aspects of Sea Pollution by Ships Prevention (961)	<i>Š. Milošević and Z. Prelec</i> 141	Quality as a Strategic Objective of Modern Company (999)	<i>H. Skoko</i> 157
Flexibility and Productivity Correlation in the Flexible Production System (962)	<i>M. Selaković</i> 147	Determining Carbon Content in Steels by Means of Optical-Emission-Spectrometric (OES) Methods (1000)	<i>S. Turina, M. Stupnišek and R. Rumenjak</i> 165
An Approach to Model Generation of Production Process Quality Assurance (963)	<i>G. Meden</i> 151	Researches in Interdependence of the Design and Technological Features of the Workpieces within the Aspect of Automation of Technologic Process Planning (1001)	<i>Nevenka Crneca-Čudina</i> 199
Analysys of Trends in Development of Flexible Manufacturing Systems Application (964)	<i>J. Ljubetić</i> 155	Assembly Line Balancing by means of New Computer Aided Procedure (Germ.) (1002)	<i>I. Veža, M. Rabe and Y. Wang</i> 207
Limitation of Exhaust Gases Emission-The Big Problem of Diesel Engine Producers (965)	<i>N. Škifić</i> 159	Digital Simulation of Water Turbine Function – Spline Interpolation of Water Turbine Characteristics (1003)	<i>T. Fancev, M. Kozarić and S. Tešnjak</i> 215
Review of Advanced Tanker Design Solutions (966)	<i>Tatjana Krilić</i> 163	Energy Performances of Fluid Meters with Damping Effect (1004)	<i>K. Franjić</i> 221
An Analysis of Thermodynamic Efficiency of Two-flow Heat Exchangers (967)	<i>E. Škrobonja</i> 167	Material Selection for a Reactor in Fertilizer Manufacture (1005)	<i>D. Šetić and V. Ivušić</i> 227
Car Otto Engines and Air Pollution (968)	<i>M. Mikuličić</i> 171	Dependence of the Depth of Surface Roughness upon Mean Arithmetical Roughness of the Ground Surface by Various Ways of Grinding (1006)	<i>R. Cebalo</i> 231
Modelling Criteria for Boundary Elements Method Spur Wheel Tooth Analysis (969)	<i>Gordana Marunić</i> 179	Surface Engineering (1007)	<i>B. Liščić</i> 237
Optimization Carrying Structure of Pillar Jib Crane (970)	<i>I. Anzulović</i> 209	Product Design Quality Economy – Essential Factor of Modern Company Business Efficiency (1008)	<i>H. Skoko</i> 245
Experimental Determination of Stress-Intensity Factors by Caustics (971)	<i>S. Jecić and D. Semenski</i> 215	Conditions and Requirements for the Repairment of Fatigue Damaged Constructions (1009)	<i>V. Grubišić</i> 253
Tribologic Processes of Cereal Transporting Pipeline Wear (972)	<i>D. Živković</i> 225	A Contribution to Optimal Designing of Gas Turbine Plants (1010)	<i>B. Staniša</i> 255
Stress Correction Factor of Spur Gear Tooth Root (973)	<i>Gordana Marunić</i> 229		
Distribution of the Addendum Modification Coefficients Sum for Involute External Straight Tothing (974)	<i>B. Križan</i> 233	36(1994)	
Optimal Application of Some Workable Systems for the Profiling of Plate Edges (975)	<i>A. Hrišik, Lovorka Tomašić and A. Šestan</i> 239	Influence of Outlet Anle Inducer's Blade on Cavitation Characteristics of Centrifugal Pump (1011)	<i>I. Cukina</i> 5
Thin Walled Scaffold Niobium Microalloyed Steel Tubes (976)	<i>Stoja Rešković</i> 243	The Analysis of the Thermodynamic Efficiency of Jet Pump with Secondary Expansion (1012)	<i>B. Kancir</i> 13
Contribution to Investigation of Nonhomogeneity of Materials with Al-Mg Alloys (977)	<i>R. Rumenjak, S. Turina and I. Uršić</i> 247	A Contribution to the Nonlinear Analysis of Compound Shell Structures (1013)	<i>J. Sorić</i> 23
Development of Diesel-engine for Ship Propulsion and the Manufacturing of such Engines in Jadranbrod (978)	<i>M. Mikuličić</i> 251	Realibility Estimation of the Components of Electrical Rotating Machines Based on the Accumulation Theory of Microcracks and the Propagation Analysis of Fatigue Cracks (1014)	<i>D. Pustaić and V. Jarić</i> 33
		Blade Geometry and Pressure Distribution Visualization by CFView Method (Engl.) (1015)	<i>Alice Vučinić, Ch. Hirsch, D. Vučinić, C. Denerr and R. Dejhalla</i> 45
35(1993)		Numerical Analysis of Thin-walled Beam Structures (1016)	<i>I. Heidl and Z. Tonković</i> 49
Optimum Cutting Data for Machining of Hard Materials (979)	<i>Y. Wuhib</i> 5	Tooth Stresses of Internal Spur Gear, 1 st Part (1017)	<i>Gordana Marunić</i> 55
Modeling of Ship's Bottom Structures by Plane Systems of Thin-walled Girders of Open Cross-section (980)	<i>R. Pavazza, B. Plazibat and A. Matoković</i> 11	Economics of Quality in Manufacturing Regarding the Conformity of a Product (1018)	<i>H. Skoko</i> 61
Improvement of Robot Features by Introducing Redundancy (981)	<i>A. Krstulović</i> 19	X-ray Diffraction in Laboratory of Iron-Steel and Pipe Works Sisak (1019)	<i>Vjera Novosel-Radović</i> 69
The Balance of Heat Exchanger Working Point (982)	<i>B. Kancir</i> 27	Some Experiences in Use of Finite Element Method at Optimization (1020)	<i>I. Anzulović</i> 77
The Analysis of Some Fracture Mechanics Parameters by the Application of the Theory of Functions of a Complex Variable (983)	<i>D. Pustaić and B. Štok</i> 31	Flexible Robots Control Based on Their Inverse Dynamics Model (1021)	<i>J. Petrić</i> 119
Eddy Thermal Diffusivity for Pipe Flow (984)	<i>M. Tadić</i> 41	Evaluation of Fatigue Limit at Operational Load (1022)	<i>D. Jelaska</i> 127
Calculation Moments on Elements of Planetary Gearbox with Three Degrees of Freedom (985)	<i>V. Stojković</i> 47	Application of the Laminar Flow Distributors with Preresistor for the Hydrostatic Bearing (1023)	<i>B. Obsieger</i> 131
Properties and Test Methods of Austenitic Steel Welds (986)	<i>B. Derniković, Marija Jarić and B. Karlušić</i> 53	Determination of Processing Cycle by Graphic Method (1024)	<i>M. Ikonić</i> 137
Testing of Consumed Motor Oil used in Otto-Engine by means of X-Ray Fluorescence Spectroscopy Method (987)	<i>Atika Kovačević</i> 61		
Stereophotogrammetric Displacement and Stress Analysis (988)	<i>S. Jecić and M. Gomerčić</i> 67		

Application of Finite Element Method on Airfoil Turbulent Boundary Layer Estimation (1025)	<i>M. Šander</i>	143	38(1996)	Non-linear Vibrations of Mechanical Systems (1064)	<i>H. Wolf</i>	5
Contribution to Numerical Estimation of Hardness Penetration Depth in Steel Specimen (1026)	<i>B. Smoljan</i>	151		Control of a Rotary Crane by a Combined Profile of Speeds (Engl.) (1065)	<i>N. Blažičević</i> and <i>B. Novaković</i>	13
An Analysis of Two-flow Heat Exchangers Through Thermodynamic Validity Degree (1027)	<i>M. Haramina</i>	157		Suburban Railway Rolling Stock Development Trends (Engl.) (1066)	<i>J. Zavada</i>	23
Tooth Stresses of Internal Spur Gear, 2 nd Part (1028)	<i>Gordana Marunić</i>	163		Translator of Technical Texts between Scylla and Charybdis (1067)	<i>Božena Tokić</i>	31
Characteristics of Modern Combined Gas-steam Turbine Power Plants (1029)	<i>B. Staniša</i>	169		Uniform Distribution of Load between the Joint of Outstanding Pole to the Highspeed Generator Rotor (1068)	<i>G. Molnar</i>	37
Diagram of Low-alloyed Mn-V Steel Continuous Cooling (1030)	<i>M. Gojić</i> and <i>R. Križanić</i>	183		On the Influence of the Loads, Acting Parallel to the Crack Surface, on the Crack Tip Opening Displacement (CTDO) and on the Magnitude of the Plastic Zone around the Crack Tip (1069)	<i>B. Štok</i> and <i>D. Pustačić</i>	73
A New Method of Helical Sharpening of Helical Drill (1031)	<i>I. Seuček</i>	215		Calculation of Shaped Charge Jet Parameters by One-Dimensional Analytical Model (1070)	<i>M. Sućeska</i>	89
Synthesis of Artificial Neural Networks for Robot Control (Engl.) (1032)	<i>B. M. Novaković</i>	223		Heat and Mass Transfer in Rotating Machinery (1071)	<i>B. Matijašević</i>	97
Development of the Vision Systems for Robot Control (1033)	<i>M. Široki</i>	233		Tribology – from Idea to Strategical Conception of Contemporary Engineering (1072)	<i>M. Krpan</i>	105
Microstructural and Mechanical Properties of the Modified High-silicon Cast Iron (1034)	<i>F. Unkić, Sonja Tounec</i> and <i>M. Mikulić</i>	241		Transport Packing for Aluminium Strips (1073)	<i>M. Morić</i>	115
Production Island Designing and Controlling by Simulation (1035)	<i>I. Veža, M. Rovar</i> and <i>B. Bilić</i>	247		Stop Soot Blower (1074)	<i>R. Milošević, B. Tanfara</i> and <i>M. Ilinčić</i>	121
Chousing of Grinder Diameter in Internal Grinding Processes (1036)	<i>D. Ciglar</i>	253		Optimal Conditions for the Extraction of Metals from Used Lubricants by Microcrystalline Cellulose (1075)	<i>V. Janković, S. Turina</i> and <i>Nada Turina</i>	157
A Simulation Analysis of Transport in the Flexible Manufacturing Cell (Engl.) (1037)	<i>B. Buchmeister, A. Polajnar</i> and <i>M. Leber</i>	257		From CIM to Fractal Enterprising Culture (1076)	<i>I. Čatić, Gordana Barić</i> and <i>D. Mikšić</i>	161
Integration of Existing Programm Packages into Computerized Information Processing System of a Company (1038)	<i>N. Majdandžić</i>	263		Theoretical Basis and Practical Applicability of Turnmilling (Engl.) (1077)	<i>J. Kopač</i> and <i>M. Pogačnik</i>	171
37(1995)				Sketching – Importance in Engineering Design and Basic Skills (1078)	<i>B. Križan</i>	175
Structural Stress Factor – Efficiency Index of Fatigue Damages Repairs (1039)	<i>Ž. Domazet, V. Grubišić</i> and <i>S. Jecić</i>	5		Refurbishment of Hydropower Station Zakučac (1079)	<i>M. Šander</i>	185
First Steps in the Calculation of Streamlines Close to the Stagnation Point by Numerical Methods in the General Three-dimensional Potential Flow (1040)	<i>Andreja Werner</i>	15		Comparative Study of Organo-metallic Dyes and Fullerenes in Dye-sensitized TiO ₂ Solar Cells (Engl.) (1080)	<i>Aleksandra Turković, H. Zorc, D. Kontrec</i> and <i>V. Vraneša</i>	257
Turning Stability and Safety of Tracked Vehicles Having Transmission with Two Degrees of Freedom (1041)	<i>Ž. Ilijevski</i>	21		Experiences in Development of Ion Getter Vacuum Pump (Engl.) (1081)	<i>A. Pregelj, M. Drab, I. Grašič, M. Mozetič</i> and <i>A. Paulin</i>	261
Task Oriented Language for RM501 Robot (Engl.) (1042)	<i>M. Crneković</i>	31		Tungsten Carbide Prepared by Reactive DC Magnetron Sputtering (1082)	<i>N. Radić, Biserka Gržeta, O. Milat, J. Ivkov</i> and <i>M. Stubičar</i>	265
Expression of the Uncertainty of Measurement (1043)	<i>M. Boršič</i>	37		Vacuum Insulating Panel – Basic Vacuum Considerations (Engl.) (1083)	<i>V. Nemanič</i> and <i>P. Novak</i>	275
Bernoulli Equation for Stationary Flow of Incompressible Newtonian Fluid (1044)	<i>Z. Mrša</i>	43		Materials Characterisation Using Nuclear Microscopy (Engl.) (1084)	<i>M. Jakšič, Ivančica Bogdanović, D. Dujmić, S. Fazinić</i> and <i>T. Tadić</i>	279
Armoured Wheeled Vehicle Development Characteristic (1045)	<i>D. Mikulić</i>	49		Valve Pressure Losses by Dry Pumps (Engl.) (1085)	<i>M. Šivec</i> and <i>M. Cerar</i>	285
Influence of Car Steering by Four Wheels on the Car Manoeuvrability and Dynamic Stability (1046)	<i>Ž. Marušić</i>	63		Defects with Deep Levels and their Impact on Optical Absorption of Semi-insulating GaAs (Engl.) (1086)	<i>M. Pavlović, U. V. Desnica, N. Radić</i> and <i>B. Šantić</i>	287
Embalage and Packing of Aluminium Foil and Thin Strip (1047)	<i>M. Morić</i>	69		39(1997)		
Analysis of Contact Rolling Algorithm (1048)	<i>P. Čosić</i>	109		Analytical Model to Estimate Optimum Cutting Conditions when Turning Free Machining Stainless Steel (Engl.) (1087)	<i>Rose Marie Borrasso Bothner</i> and <i>J. E. Freckleton</i>	5
Prediction of Microstructure and Hardness of Steels After Heat Treatment in Vacuum Furnaces with High Pressure Gas Quench Systems (Engl.) (1049)	<i>I. Golobič, B. Gašperšič, V. Perovnik</i> and <i>J. Remec</i>	119		Free Convection in an Enclosure Bounded by a Horizontal Duct and a Tube (1088)	<i>A. Ničeno</i> and <i>B. Franković</i>	13
The Analysis of the Flight Simulation of Unguided Rockets (1050)	<i>S. Janković</i>	125		Exergy Analysis of Saturated and Superheated Water Vapour (1089)	<i>A. Galović</i> and <i>Ivanka Boras</i>	23
Microstructural Analysis of Probes for Forgeability Estimation of X20Cr13 (Č4172) Steel (1051)	<i>P. Dukić</i> and <i>Z. Kuzman</i>	131		Derivation of Natural Gas Isentropic Exponent from AGA-8 Equation of State (Engl.) (1090)	<i>I. Marić</i>	27
Operating Mechanism for Compact Vacuum Distributive Switch Gear	<i>R. Milošević</i>	137		The Influence of Adaptive Change of Cutting Parameters on the Effectiveness of Grinding Process (Engl.) (1091)	<i>A. Šestan, T. Mikac</i> and <i>M. Jurković</i>	105
Metal Founding in Transition Countries – Prospects for Croatia (1053)	<i>Z. Bonačić-Mandinić</i>	143		Entropy Analysis of Adiabatic Mixing of Boiling Water and Superheated Water Vapour at Equal Pressures (1092)	<i>A. Galović</i> and <i>Z. Virag</i>	111
Maximum Contact Pressure of the Conform Cylindrical Bodies with Concave-Convex Contact (1054)	<i>Dubravka Siminiati</i>	149		Wine Storage Containers of High-alloyed Steels (1093)	<i>G. Schubert, I. Eškinja</i> and <i>Vesna Alar</i>	117
Thermodynamic Analysis of the Claude Process of Methane Liquefaction by Exergy Method (1055)	<i>I. Poljčanin</i>	155		Law of Chambers of Engineers and Professional Engineers (1094)	<i>I. Štern</i>	123
A Contribution to Research of Work Training (1056)	<i>M. Car</i>	193		Influence of Passengers and Their Luggage to the Centre of Mass of the Passenger Cars (1095)	<i>Sanja Bjelovučić-Kopilović</i>	181
Alternating Stress of External Gear with Thin Rim (1057)	<i>Gordana Marunić</i>	209		Application of the Marcovian Theory in Calculating the Probability Status of Technical System (1096)	<i>M. Vrhovski</i>	193
The Rounding of Measurement Results (1058)	<i>Z. Godec</i>	213		The Choice of Optimal Transport Means in Production System (1097)	<i>B. Bilić</i>	199
Eight-axle Two-articulated Tram of 2101 Type for Zagreb (1059)	<i>I. Kopecki</i>	217				
Division of Rapid Prototyping Procedures (1060)	<i>D. Šantek</i>	231				
Development of Plate for the Body with Elliptical Cross Section (1061)	<i>S. Hasanbegović</i>	239				
Improved Calculation of Dynamically Loaded Rolling Bearings Life (1062)	<i>B. Križan</i>	245				
European Technical Course »European Product Engineering and Management« (1063)	<i>Z. Valter</i>	251				

- Construction of Agricultural Tractor Stipulated by Ergonomic Requests (1098) *T. Jurić, L. Šumanovac, G. Heffer and R. Emert* 209
- Philosophy of Toolmaking (1099) *I. Čatić and D. Godec* 257
- Analysis of Ship Oscillation on Harmonic Wave (1100) *Jasna Prpić-Oršić* 267
- Model of the Holistic Information Integration of an Enterprise (Engl.) (1001) *B. Kalpić and A. Polajnar* 275
- Electrical Signals and Changes to Composition of Materials in Response to Mechanical Forces (1002) *Z. Ogorelec* 281
- 40(1998)**
- Optical Method of Caustics in Fracture Mechanics of Anisotropic Materials (1103) *D. Semenski and S. Jecić* 5
- Stochastic Modelling and Optimization of Tool Cutting Geometry for Turning (1104) *M. Jurković, G. Cukor and Z. Jurković* 17
- Application of the Theory of Stochastic Processes in Research of Traction Force of Plough-shares (1105) *M. Vujčić, G. Heffer and T. Jurić* 31
- Protection of Ploughshare Blade by Welding of Hard Materials (1106) *Đ. Banaj, R. Zimmer and R. Emert* 39
- Characteristics and Importance of Article Abstract Writing (1107) *Jadranka Braut* 45
- The Fatigue Crack Growth Parameters for 20MnCr5 Steel (Engl.) (1108) *S. Glodež and Z. Ren* 85
- Ausforming Treatment and Properties Improvement of a CuZn27Al4-Shape Memory Alloy (1109) *D. Čorić, M. Franz and J. Spielfeld* 89
- Influence of Al-Si Alloys Microstructure on Surface Roughness after Fine Turning Process (Engl.) (1110) *J. Grum and A. Oblak* 99
- The Effects of Fe and Mn on Microstructure and Mechanical Properties of Modified Al-Si Eutectic Alloy (1111) *F. Unkić, P. Matković and Tanja Matković* 107
- Lifetime Prediction in the Creep-fatigue Interaction Regime (1112) *D. Rubeša* 113
- Some remarks on Experimental Thermographic Stress Analysis (1113) *S. Jecić and S. Goja* 169
- New Strategy of Adaptive Position Control of Electro-hydraulic Linear Drive (Engl.) (1114) *E. Detiček and E. Kiker* 179
- Mathematical Modelling of Plastic Regions Spreading in Continuous Beams made of Linear Strain-hardening Material (Engl.) (1115) *D. Pustaić* 189
- Roughness of Workpiece Made by Orthogonal Turn-milling (1116) *R. Motika, S. Škorić and D. Ciglar* 207
- Geoinformation Technologies and Environmental Management (1117) *M. Jurišić, T. Hengl, Ž. Bukvić and R. Emert* 215
- Wear of Agricultural Tools by Soil Particles (1118) *G. Heffer, M. Vujčić and T. Jurić* 221
- 41(1999)**
- Creating of the Cooling-heating Processes Using Zeotropic Mixtures (1119) *T. Čurko, I. Galaso and V. Soldo* 5
- Analysis of Throttling of Dry Saturated Steam with Supercritical Specific Enthalpy (1120) *A. Galović* 13
- Thermal Insulation, Shading and Ventilation of Transparent Building Envelope with a Double Cavity and Syphon (Engl.) (1121) *S. Medved and P. Novak* 19
- The Impact Evaluation of Carbon Dioxide Concentration on Energy Consumption Analyzing Indoor Air Quality (Engl.) (1122) *V. Butala* 27
- Problem of Unsteady Heating the Concrete Basement of Vessels Aimed for Storage Crude Oil and Oil Derivates (1123) *Ivanka Boras, Božica Marić and S. Švaić* 35
- Finite Volume Method for the Analysis of Elastic Stresses Caused by Heat and Moisture (1124) *Dunja Martinović and I. Horman* 39
- Temperature Change Rate of Building Material at Unstationary Heat Transfer from the Working Fluid to the Cylindrical Pressure Vessel Wall (1125) *G. Vasilevski* 49
- Influence of Disorder in the Optical Absorption Edge in $(\text{Ga}_x\text{In}_{1-x})_2\text{Se}_3$ Semiconducting Compounds (Engl.) (1126) *Ida Dunja Desnica Franković and M. Kranjčec* 101
- Application of Surface Analytical Technique HRAES to Metallurgy (Engl.) (1127) *Monika Jenko and Dj. Mandrino* 107
- XPS Investigation of Corrosion-resistant Films Formed on Alloyed Cast Steels (Engl.) (1128) *L. Vehovar, P. Pervan and M. Milun* 111
- Models World and Products World (1129) *Z. Benčić* 117
- Some Ecological Effects of Machinery Utilization in Forestry (1130) *I. Martinić, M. Jurišić and T. Hengl* 123
- Contribution to the Numeric Analysis of the High-stack Forklift Truck Working Cycles (Engl.) (1131) *Č. Olujić i G. Đukić* 131
- Cold Cathode Ionization Vacuum Gauges (1132) *A. Pregelj, M. Drab, V. Kumperščak, A. Paulin and M. Mozetič* 139
- High Voltage Vacuum Feedthroughs (1133) *Alenka Kosmos, A. Pregelj and Lidija Belič* 145
- Application of Partially Polymerised Araldite B in Photoelasticity by Means of Ionising Radiation (1134) *R. J. Beer, S. Jecić, J. Kodvanj and W. Grienauer* 173
- An Intelligent Position Control of Electro-hydraulic Linear Drive (Engl.) (1135) *E. Detiček* 181
- The Influence of Coagulant and Adsorbent Dosing Sequence on Natural Organic Matter Removal from Lake Water (1136) *D. Ljubas, N. Ružinski and S. Dobrović* 191
- Fatigue Strength of Dental Metal-ceramics (1137) *Renata Poljak-Guberina, M. Franz and A. Čatović* 201
- Numerical Analysis of Non-stationary Temperature Field Using Control Volumes Method with Compensation of Boundary Conditions (1138) *N. Ninić, S. Podrug and D. Jelaska* 207
- System Approach to Incorporating Manufacturing Strategies Within a Broader Concept of Strategic Management (Engl.) (1139) *K. Pandža and A. Polajnar* 215
- Agro-ecological and Land Information System (1140) *M. Jurišić, T. Hengl, V. Duvnjak and I. Martinić* 223
- Production Planning and Control System Selection (Engl.) (1141) *M. Starbek and J. Kušar* 233
- Microtechnology and Nanotechnology (1142) *M. Šerčer, Maja Runjić-Sokele and J. Dobranić* 241
- 42(2000)**
- The New Quasi-dynamic Method for Estimation of Earthquake Influence on Machinery Structures (1143) *M. Butković and B. Orčić* 5
- The Effect of Fluid Properties on the Atomisation of Sprays Using Flat Fan Nozzles (1144) *V. Duvnjak, Đ. Banaj, R. Zimmer and M. Jurišić* 15
- Heat Transfer Coefficient Analysis between Fluidized Bed and Horizontally Immersed Pipe Coil (1145) *A. Galović, M. Andrassy and S. Mudrinić* 25
- Stability of Lateral Motion of a Car with Trailer (1146) *M. Stegić, N. Vranković and A. Jokić* 31
- The Use of the Smith Diagram in Fatigue Design (1147) *D. Jelaska* 45
- Heat Exchange through a Finned Tube with Circular Fins of Constant Thickness (1148) *Ž. Parat* 55
- Prediction of Strength Mis-mach Welded Joints Failure by Using of Crack Driving Force Curve and Crack Tip Opening Displacement (CTOD) Resistance Curve (1149) *N. Gubelj, D. Kozak and F. Matejiček* 85
- Extended ABC Analysis (Engl.) (1150) *M. Starbek, J. Petrišić and J. Kušar* 103
- Forced Steady-state Vibrations of Systems with Clearances (1151) *H. Wolf* 109
- Material Wear of Cultivator Shovels (1152) *Đ. Banaj, M. Vujčić, R. Emert and V. Duvnjak* 119
- Continuously Driven Resonance (Engl.) (1153) *V. Lacko and P. Lacko* 127
- Radial Pump Operating Noise and Casing Vibration Analyses (Engl.) (1154) *A. Predin, M. Kastrevc and I. Biluš* 137
- Numerical Modelling of Ship Free Surface Potential Flow (1155) *R. Dejhalla and Jasna Prpić-Oršić* 181
- A Method for the Stochastic Modelling of Tool Life (1156) *G. Cukor* 189
- Numerical Analysis of Cold Rolling Process of Thin Plate Workpieces (1157) *M. Čanađija* 197
- A Thermodynamic Analysis of Heat Transfer Phenomena at the Rotary Regenerator in the Boiler System of an Electric Plant of Medium Output (1158) *Anica Trp* 205
- Large Rotations Elastic Buckling Analysis of Thin-walled Beam Structure (1159) *G. Turkalj and J. Brnić* 217
- Contact Pressure Analysis at Multi-contact on Elastic Bodies (1160) *Dubravka Siminiati* 231
- Application of the Complex Transfer Functions in Robotics (1161) *R. Žigulić* 243
- 3D Approach for Spur Gear Stress Evaluation (Engl.) (1162) *Gordana Marunić* 249
- Mathematical Model of an Indirect Cooling System with Thermal Storage (1163) *B. Pavković* 255

43(2001)

- A Way for the Appoint Suitable Drying Wood Schedule (1164)
Dunja Martinović and I. Horman 5
- Influence of Chemical Composition of Steel on Difusion Carbide Layer Formating (1165) *B. Matijević* 17
- The Corrosion and Mechanical Properties of Hot Dip Galvanized Steels (Engl.) (1166)
H. Mehmeti, Sanja Martinez and I. Štern 23
- Modeling and Control of Servopneumatic Drive (Engl.) (1167)
Ž. Šitum and J. Petrić 29
- Development Tendencies of Universal Combine Harvesters (1168) *D. Brkić, L. Šumanovac, T. Jurić and D. Knežević* 41
- Satelite Navigation (GPS) – Trends and Application (1169)
T. Hengl, M. Jurišić, I. Martinić and S. Husnjak 49
- Robot Precision and Quality Inspection (Engl.) (1170)
A. Krstulović 57
- Helical Surfaces of Gear Cutters Backed off (1171)
I. Seuček, M. Opalić and P. Rakamarić 59
- Radioactive Materials in Steel Scrap (1172)
T. Sofilić, Alenka Rastovčan-Mioč and Štefica Cerjan-Stefanović 65
- Optimal Feedback Control of Nonlinear Systems with Control Vector Constraints (Engl.) (1173)
J. Kasač and B. Novaković 133
- A New Method for Cold Forming of Aluminium Composites to High Strains Using Superimposed Hydrostatic Pressure (1174)
M. Nastran, K. Kuzman and B. Dodd 143
- Influence of Thermocycling on Fatigue Strength of the Interface Between Argentum-Paladium Alloy and Hydrothermal Ceramics (1175)
Renata Poljak-Guberina, A. Čatović, M. Franz, M. Husnjak and Goranka Prpić-Mehičić 151
- Robot Energy Efficiency Through Redundancy (1176)
A. Krstulović 161
- Expert System *OPTIS* for Optimization of Cutting Conditions and Modern Information Systems of Selection of Tools and Cutting Conditions in Cutting Processes (Engl.) (1177)
B. Muršec and T. Ploj 169
- Mechanical Request for the Artificial Hip Joint (Engl.) (1178)
Ž. Cvirn and Vesna Stepanić 177
- Analysis of the Performance of the Mechanical Drilling Unit in Sowing Vegetable (1179)
S. Ivančan, S. Sito and G. Fabijanić 183
- Contribution to Determination of Stresses in Spur Gears with Damping (Engl.) (1180) *M. Lakota, J. Flašker, M. Opalić, Z. Pšeničnik and D. Stajanko* 191
- The Power of Quotation Marks (1181) *Z. Benčić* 199
- Justifiability of Monitoring the Presence of Radionuclides in Steel Scrap and Crude Steel (Engl.) (1182)
T. Sofilić, Alenka Rastovčan-Mioč, Štefica Cerjan-Stefanović and Ž. Grahek 203

44(2002)

- Omega* Type Solar Charge Station (Engl.) (1183)
G. Atagündüz 5
- Cost Optimization of a Cogeneration Plant Operation (1184)
Ž. Bogdan and N. Šerman 17
- Usage of the Thermic Building Element Activation in Cooling (Germ.) (1185) *A. Can* 27
- Newton's Law of Cooling Viewed in the Light of Today's Knowledge of Heat Transfer (Engl.) (1186) *E. R. G. Eckert* 35
- The Comparison of the Calculation Procedure of a Cross Flow Heat Exchanger Using Analytical and Numerical Method (1187)
A. Galović, Z. Virag and Marija Živić 39
- Common Mathematical Model of Recuperators, Water Cooling Towers and Evaporative Condensers (1188) *B. Halasz* 49
- Exergy Losses and Energy Efficiency of Combined Power Cycles (Engl.) (1189) *K.-F. Knoche and F. Henrich* 61
- Additional Extension of the Carnot's Principle (Engl.) (1190) *I. Kolin* 71
- Investigation of Dependence of Surface Roughness Upon Influencing Factors During the Superfinishing Process (1191)
D. Bajić 101
- Laser Ablation of Boron-Carbide Target (Engl.) (1192)
Višnja Henč-Bartolić, Eva Kovačević, H.-J. Kunze, T. Atwee and M. Stubičar 117
- Reynolds Number Effects of Turbulent Film Flows in the Near-wall Region (Engl.) (1193) *B. Mijović* 123
- Inorganic Compounds of Fe, Ca, Si, Ni and S in Heat Treated Metallurgical Cokes Produced With Additives (1194)
Ankica Rađenović and Mira Legin-Kolar 131

- Chemical Stability of Electric Furnace Slag (Engl.) (1195)
Alenka Rastovčan-Mioč, F. Unkić, Lidija Čurković, Štefica Cerjan-Stefanović and B. Mioč 137
- Development of Production Networks in Wood Processing and Furniture Manufacturing (1196)
T. Grladinović, M. Figurić and I. Veža 145
- A Calculation of the Saturation Properties of Ordinary Water (Engl.) (1197) *M. Primorac* 157
- Finite Elements Modelling of Plastic Zones Spreading in the Thin Plates with Geometrical Discontinuities (Engl.) (1198)
D. Pustačić 169
- Introduction of the Laboratory of Pressure Metrology at the Institute of Metals and Technology (Engl.) (1199)
Lidija Irmančnik Belič, J. Šetina, and B. Erjavec 179
- Characteristics of Capillary Discharges as EUV Sources of Radiation in Range of 10...16 nm (Engl.) (1200)
Sanda Pleslić, Ž. Andrejić, S. Ellwi and H.-J. Kunze 185
- Claims to be Reached Developing a Gas Arrester (1201)
A. Pregelj, A. Pirih, A. Štagoj, F. Breclj and M. Bizjak 189
- Thermal and Elastic Properties of Hard Carbon (Engl.) (1202)
Ana Smontara, A. Bilušić, J. C. Lasjaunias, M. Saint-Paul, Silvija Gradečak, Anđelka Mejaški-Tonejc, A. Tonejc, N. Kitamura and S. Bennington 195
- Thin Film Deposition by a Circular Planar Magnetron (1203)
M. Srzić and N. Radić 201
- Small-angle X-ray Scattering of Synchrotron Light Source on Nanostructured V/Ce Oxide Films (1204)
Aleksandra Turković, Kristina Hrestak, P. Dubček and Zorica Crnjak Orel 211
- Impedance, IR, Raman Spectroscopy and Differential Scanning Calorimetry of Nanocomposite (PEO)₈ZnCl₂ Polyelectrolyte (1205)
Aleksandra Turković, K. Radmanović, I. Pucić and Zorica Crnjak Orel 219
- Use of English in our Engineering Practice (1206) *Z. Benčić* 225

45(2003)

- Biomedical Co-Cr-Ni and Co-Cr-Mo Alloys Properties Comparison (1207)
P. Matković, Tanja Matković and Jadranka Malina 5
- Hip Joint Prosthesis as Tribological System (1208)
Ivana Dovžak Bajš, M. Opalić, I. Cvjetko, Dolores Car, Višnja Kokić, Nina Bival and S. Risović 11
- Comparison of the Protected and Unprotected Plough Share Wear by the Abrasion of the Soil Particles(1209)
D. Filipović, Đ. Banaj, S. Košutić, M. Josipović and B. Šimić 17
- Investigation of Stress Concentration in Cylindrical Shells with Polygonal Holes (1210) *Z. Kulenović* 25
- Strategic Process of Capability Accumulation: a Case-study in Manufacturing Organization (1211)
K. Pandža, A. Polajnar and B. Buchmeister 39
- The Observation of Red Pepper Drying in Vacuum by Measurement Temperature (1212) *S. Pleštić and V. Mitrevski* 47
- Precision of the *Gun-projectile-computer* System (1213)
Z. Trzun and S. Janković 55
- A Dynamic System of Material Flows in Wood Industry Companies (1214)
T. Grladinović, D. Benić, V. Grbavac and D. Jelačić 65
- Organizational Structure Without Hierarchy (Engl.) (1215)
T. Kern 101
- Applicability Evaluation of Some Non-linear Analysis Methods of Linear Systems to Cantilever Beam (1216)
D. Kostović 111
- The Influence of Thermal Treatment on the Fatigue Strength of Alloyed Steel (1217) *Z. Veljačić and Ž. Domazet* 121
- Inorganic Compounds of Fe, Ca, Si, Ni and S in Heat Treated Metallurgical Cokes Produced With Additives (1218)
Marija Živić, Z. Virag, and A. Galović 129
- Uncertainty Estimation of Length Measurements with Instruments of Legal and Special Metrology (1219)
Z. Godec 141
- Contribution to Investigation of Tree Damaging by Forest Road Excavating Machines (1220) *D. Pičman, T. Pentek and T. Poršinsky* 149
- QFD as a Method of Integrated Product Implementation (Engl.) (1221) *M. Starbek, J. Grum and J. Kušar* 159
- On the Occasion of the 30th Anniversary of Publishing the Article "Technical Terminology" (1222) *I. Čatić* 173