

## **MACHINE CONSTRUCTION**

### **CONTENTS**

Pp.

ARISTOTEL POPESCU, JAMES R. WELTY and CARMEN-EMA PANAITE, Liquid Metal Cooling for Microelectronics (English, Romanian summary) .....	9
CEZAR DUCA and FLORENTIN BUIUM, Forces Transmission in the 0/3/3 Structural Group (English, Romanian summary) .....	17
VIRGIL ATANASIU and CEZAR OPRIŞAN, Influence of Addendum Modifications on Dynamic Friction Loads of Spur Gears (English, Romanian summary) .....	23
FLORENTIN BUIUM and CEZAR DUCA, An Approach of Oscillating Cylinder Mechanism Synthesis (English, Romanian summary) .....	31
DUMITRU LEOHCHI and EUGEN MERTICARU, Dynamic Model of an Anthropomorphic Robot (English, Romanian summary) .....	39
DAN-TEODOR BĂLĂNESCU, PAVEL-DORU VASILIU and CONSTANTIN- EUSEBIU HRIȚCU, Biowastes – from Environmental Threat to Power Generation (English, Romanian summary) .....	49
HARALAMBIE MIHAIL VARTOLOMEI, Some Results of the Experimental Research for the Study of the Flow in an Adiabatic Regime Through Capillary Tubes (English, Romanian summary) .....	59
IOAN BĂISAN and GELU NUȚU, Study on the Tension of Blades Cutting Equipment Plant Strains Using a Finite Element Method (English, Romanian summary) .....	67
DĂNUȚĂ COZMA and OANA ELIZA BĂETU, Articulated Sieve Band for the Calibration of Potato Tubers (English, Romanian summary) .....	73
VIOREL GOANȚĂ, Influence of Stress Concentrators Upon the Deformability of a Straight Bar (English, Romanian summary) .....	79
RALUCA MARIA MOCANU, VIOREL GOANȚĂ and IRINA NICOLETA ZETU, Comparison of Hardness for Different Types of Orthodontic Wires (English, Romanian summary) .....	95

DRAGOŞ CHITARIU and NICOLAE GHERGHEL, Experimental Research Regarding Static Rigidity in Axial Direction of “Normal” Modules from Modular Fixtures Structure. I. Research Methodology. Measuring Equipments. Researched Modules and Test Stand (English, Romanian summary) .....	101
DRAGOŞ CHITARIU and NICOLAE GHERGHEL, Experimental Research Regarding Static Rigidity in Axial Direction of “Normal” Modules from Modular Fixtures Structure. II. Results (English, Romanian summary) .....	111
ALIN LUCA, A Comparative Study Regarding the Measurement of Machined Surface Roughness (English, Romanian summary) .....	119
CARMEN LOGHIN, Some Aspects Regarding the Radio Frequency Welding of Textile Composites (English, Romanian summary) .....	125