



Contents

ORIGINAL SCIENTIFIC PAPER

K.Vijaya Kumar, N.Ramanaiah, N. Bhargava Rama Mohan Rao, B.Srinivasa Prasad. MICROSTRUCTURAL AND MECHANICAL PROPERTIES OF SHIELDED METAL ARC WELDED JOINTS	1
Vasilko, K. METAL OF THE FUTURE – TITANIUM AND THE PROBLEMS OF ITS MANUFACTURING.....	7
Todić, A., Pejović, B., Kovač, P., Ješić, D., Savković, B. IMPROVE OF TOUGHNESS AND HARDNESS OF HIGH ALLOYED STEEL BY VANADIUM AND APPROPRIATE HEAT TREATMENT.....	13
Adekunle, A. S. Adedayo, S. M. Ohijeagbon, I. O. Olusegun, H. D. CHIP MORPHOLOGY AND BEHAVIOUR OF TOOL TEMPERATURE DURING TURNING OF AISI 301 USING DIFFERENT BIODEGRADABLE OILS.....	18
Lanc, Z., Zeljković, M., Štrbac, B., Živković, A., Drstvenšek, I., Hadžistević, M. THE DETERMINATION OF THE EMISSIVITY OF ALUMINUM ALLOY AW 6082 USING INFRARED THERMOGRAPHY	23
Gostimirović, M., Kovač, P., Radovanović, M., Madić, M., Krajny, Z. MODULAR DESIGN OF UNCONVENTIONAL CUTTING MACHINE TOOLS	27
Beňo, J., Tomáš, M., Ižol, P., Varga, J. ANALYSIS OF THE FREE FORM SURFACE MILLING BASED ON A FRAGMENTATION APPROACH	31
Sekulić, S. RELIABILITY WHICH CORRESPOND TO MEAN TIME TO FAILURE	35
Madić, M., Radovanović, M., Kovačević, M. MODELING AND OPTIMIZATION OF KERF WIDTH OBTAINED IN CO ₂ LASER CUTTING OF ALUMINUM ALLOY USING DISCRETE MONTE CARLO METHOD.....	39
Živanović, S., Milutinović, D., Slavković, N., Dimić, Z. TESTING AND PROGRAMMING MINI LABORATORY AND DESKTOP 3-AXIS PARALLEL KINEMATIC MILLING MACHINE.....	43
Mladenović, C., Zeljković, M., Košarac, A., Živković, A. DEFINITION OF MACHINING SYSTEMS STABILITY LOBE DIAGRAM USING ANALYTICAL MODELS	47

Brajlih, T., Kadivnik, Z., Paulic, M., Irgolic, T., Hadzistevic, M., Matin, I., Drstvenssek, I. COMPARISON OF SELECTIVE LASER SINTERING AND INJECTION MOULDING	51
Ocampo, L. MEASUREMENT SYSTEM ANALYSIS OF WIREPULL TEST IN SEMICONDUCTOR WIREBONDING PROCESS: A CASE STUDY	55
Kiss, F., Rajović, V. LIFE CYCLE INVENTORY ANALYSIS OF LIGNITE-BASED ELECTRICITY GENERATION: CASE STUDY OF SERBIA	61
Šokac, M., Budak, I., Ralević, N., Soković, M., Santoši, Ž. ACCURACY ANALYSIS OF CLUSTERING ALGORITHMS FOR SEGMENTATION OF INDUSTRIAL CT IMAGES	65
Tadić A., Mirković S., Puškar T., Šokac M., Budak I. IMPLANT PLANNING THERAPY BASED ON CBCT IMAGES OF THE RADIOSENSITIVE TEETH	69
PRELIMINARY NOTE	
Lapčević, A., Jevremović, D., Trifković, B., Santoši, Ž., Vukelić, Đ. APPLICATION OF CAD/CAM TECHNOLOGY IN THE DESIGN AND CREATION OF FULL ANATOMIC BRIDGE FORM ZIRCONIUM DIOXIDE	73
Kádárová J., Kalafusová L. GLOBAL DISTRIBUTION NETWORK AND RISK MODELING	76
Nayak, N.C., Ray, P. K. FLEXIBILITY AND QUALITY ASPECTS OF INDIAN MANUFACTURING MANAGEMENT PRACTICES: AN EMPIRICAL INVESTIGATION	81
Ocampo, L., Carreon, R., Carvajal, J.A., Galagar, K.J., Gialolo, D.M., Gulayan, M., Indig, D., Nuñez, D.M., Tagsip, W.C., Vallecera, J.M., Villegas, Z. MATRIX-BASED LIFE CYCLE ASSESSMENT (MLCA) ON POLYSTYRENE AND RECYCLED PAPER EGG TRAY PACKAGING.....	87
INSTRUCTION FOR CONTRIBUTORS	93