

## Cuprins

Modelling and simulation of electron and ion beam machining <b>BÎȚOI Ion-Vlăduț-Valentin, COCOȘATU Bogdan, IUGA Ana-Cristina</b> .....	1
Development of machining operations variants integrable in industrial technological systems <b>POPESCU Ioana-Dana, DINCĂ Florentin-Laurențiu, IONIȚĂ Anastasia-Ștefania, NECȘOIU Mihaela-Mădălina</b> .....	7
Bibliographic study on bio-nanocomposite materials used in food packaging <b>ENE Elena</b> .....	13
Development on variants of technological part-holding devices in industrial conditions <b>CIOBOATĂ Ioana-Olivia, GHIȚĂ Nicoleta-Sorina, FĂTU Andrei-Marian</b> .....	19
Developments regarding modules of a dividing head with digital display <b>GHIȚĂ Nicoleta-Sorina, CIOBOATĂ Ioana-Olivia, , FĂTU Andrei-Marian</b> .....	25
Research concerning inconel alloy by conventional and nonconventional machining <b>TECUCEANU Roxana-Alexandra</b> .....	31
Industrial development on modules of an injection mold <b>BARBU Radu-Cristian, BUCĂ Julia-Elena, DINU Alexandra-Maria</b> .....	37
Research about making a portable equipment for electrical discharge machining with contact breaking <b>HĂȚIȘ-CONDOIU George-Bogdan, TOPORAN Silviu-Daniel</b> .....	43
Gestionarea securității cibernetice privind algoritmi de învățare automată <b>DIONISIE Ștefania</b> .....	49
Optimizing a logistic flow using dedicated software applications <b>MITROI Viorel-Ionuț-Marius</b> .....	57
Cresterea productivității fluxului de prelucrare și pregătire a reperelor din industria petrolieră după etapa de automatizare <b>MORARU Cosmin Marian</b> .....	65
Optimizarea sistemelor de depozitare folosind metoda FIFO <b>ILIE Daniela-Mariana</b> .....	73
Research regarding smart devices for diabetics <b>PANAITE Andreea Lăcramioara</b> .....	81
Haptic glove immersive system for upper limb rehabilitation <b>DARABONT Vlad-Andrei</b> .....	89
Optimization of the hip prosthesis according to the patient's weight <b>DRAGU Maria</b> .....	96
Research on monitoring people with Alzheimer <b>COSTACHE Iulia</b> .....	103
Study of the characteristics of cardboard packaging for refrigerated and frozen foods <b>TETELEA Cristina</b> .....	111
The analysis of the organization of production flows to ensure the quality of the offset printing process <b>RÂBIȚĂ (OVESIA) Otilia</b> .....	119

Comparative analysis of colors and errors specific to securities papers like postal stamps <b>PĂUNESCU Mihai</b> .....	126
Increasing the productivity of offset print equipment by implementing an in-line print quality control system <b>TURCEA Adrian-Florin</b> .....	134
Optimization of typographical production flows by reducing auxiliary times <b>MOLDOVEANU (TAȘCĂU) Elena</b> .....	142
Experimental stand for determining some characteristics of printing substrates <b>KAPUSI Zalán</b> .....	150
Variation of the box compression test according to the dimensions of the carton box and its quality <b>DUMITRESCU (POPA) Clara – Maria</b> .....	156
Analysis of glass graphics in printing processes <b>DOROFTEI Marius-Marian</b> .....	164
Tehnologii de control și recondiționare a pieselor executate din oțeluri turnate de tipul rotilor <b>POPESCU George, VLADUCA Dan</b> .....	172
Determining the endurance of a surface put to the abrasion test using the finite element method <b>CRĂCIUN Ștefan, ȚURCANU Mihai Daniel</b> .....	178
Shape memory materials <b>MILEA Oana Elena, Claudiu Răzvan VIȘAN</b> .....	184
Nanotehnologiile și lumea miraculoasă a metamaterialelor <b>AVADANEI Irina Mihaela, BRATU Mihnea Alexandru</b> .....	191
Accelerarea procesului de curățire a pieselor de autovehicule cu ajutorul ultrasunetelor <b>TOADER Robert Valentin, SASU Cosmin Gabriel</b> .....	194
Research regarding the welding behavior of austenitic stainless steel AISI 304L <b>MĂRĂȘESCU Cristian</b> .....	199
Ciocănitarea Mecanica <b>PETRICIANU Alexandru Daniel, GÎDIUȚĂ Ioana, DIACICOV Călin Marian</b> .....	207
Ingenuity helicopter - a new space technology <b>GOLOGAN Ioana-Elisa, IFTODE Ana-Lorena</b> .....	214
Medical applications of shape memory materials <b>BANIAS Rebeca, NINU David, MATEI Ștefan</b> .....	220
The relation between glass and technology <b>VLAD Ionut Alexandru, VITA Ioan Paul Lucian, ZLATESCU Ioan Alexandru</b> .....	227