

Cuprins

Modeling a pick and place mechanism used in factories TAMAS Eugen-Adrian, COCOLOŞ Ana Maria Nicoleta.....	1
The construction of a model of the shaping mechanism and its kinematic analysis using the MATHCAD software MEHEDINTI Patricia Camelia, PEREȚEANU Adrian Iulian, STAN Andreea Georgiana.....	7
Bi-mobile robot positional and kinematic modeling GHEORGHIȚĂ Alexandru.....	15
Structural analysis and modeling in Inventor of a forging mechanism DIACONU Ramona, DRAGAN Adrian	20
Modelling of an overhead valve engine mechanism POPA Andrei-Sebastian, GRECU Andrei-Bogdan, TOŞU Tiberiu-Nicolae.....	25
Impact of IOT in logistics ȘTEFAN Bianca Minodora.....	30
Structural and functional characteristics of a seedlings transplanting manipulator SOARE Gabriel Alexandru, ZAMFIR Andreea, TALĂ George, BURTAN Alexandru Cosmin, ILIE Florin Cosmin.....	34
Study regarding the construction and use of surgical robots DAVIDESCU Andrei-Iulian, DINU Sabrina-Alexandra, OLTEANU Andreea-Anamaria.....	40
Modeling and simulation of a multifunctional recovery system TODERITĂ Andra Petronela.....	46
3D modeling and printing of a robotic arm MEILESCU Mihai.....	54
Modeling, simulation and realization of a mechanical system for moving on snow CIOBANU Alexandru Costin.....	60
Robotization of palletization processes GEORGESCU Tiberiu-Marian, GEORGESCU Aurelia-Mioara, MARIN Mihai-Gabriel.....	68
Dynamic synthesis of diesel engine 12 LDA 28 - LDE 2100 HP - with rotary cam and roller transport rack BIBIREConstantin.....	76
Study on the construction and operation of exoskeleton equipment POPESCU Doina-Maria.....	84
Finite differences in the study of mechanisms CUMPĂNĂȘOIU Georgeta-Simona, BUDUȘAN Rareș-Voicu, CROITORU Simona, FLORESCU Andrei-George.....	91
Opportunities and disadvantages of the technical discipline teaching system in the online version versus face-to-face teaching MIHAI (LUPŞE) Cristina-Elena.....	99
The design, modeling and assembly of a bridge structure made of wood sticks ZENCENCO Emanuel-Eduard.....	107

Pre-dimensioning and design of torsion bars for automobile suspensions TURCANU Valentina Ana Maria	113
Cutting-edge materials in aerospace industry BOCU Ștefania-Denisa, MOSOR Teodora	119
Comparative study regarding the modeling of a beam with solid or beam type elements COSTACHE Filofteia-Bianca	125
Design concepts and optimization of kinematic mounts used in space applications BURLOU Andreea	131
Optimization of mountain bike suspension triangle MECHTALY Nisrine	140
Impact behavior of a new type of sandwich material used for shock damping, proposed in motorcycle helmet manufacturing STANCIU Cornel Răzvan	147
Stress analysis for a spark ignition engine piston using FEM COSTACHE Marian	160
Designing, analysis and manufacturing of a scissor lift platform EKICI Murat Metehan	168
Study of the geometry change in the double- lap adhesive joints STOICA Constantin- Romică	176
Finite element analysis of the contact between tooth flanks for an involute spur gear CIMPOERU Marian-Cătălin	187
Design and mechanical study of the leg orientation system of a climbing hexapod TÎRSINA Nicoleta	195
Experimental researches about controlling an AGV using RFID STAICU Mihai Laurențiu	203
Experimental researches about controlling an AGV using RFID SCARLAT Andrei-Daniel	207
RFID building access system SCARLAT Andrei-Daniel	211
Designing and development of a teaching AGV FLOREA Alexandru-Valentin	215
Study on the implementation of AGV wireless loading solutions DRĂGAN Alin-Leonard	219