Mechanisms, Transmissions And Applications

From the contents: Preface.- Scientific Committees.- History of Mechanisms and Machine Science and Teaching Methods: On the Evolution of Graphical Representation of Gears, by Ceccareli M, Cigola M..- 2. Kurt Hain and Walther Meyer zur Capellen: A View from Aachen at Two Shapers of German Mechanism Theory, by Corves B..- 3. thinkMOTION - DMG-Lib goes Europeana, by U. Dring, R. Brecht, T. Brix.- 4. Multilingual Illustrated -thesaurus in Mechanisms Science, by E.-C. Lovasz, D. Perju, B. Corves, T. Brix, K.-H. Modler, I. Maniu, C.M. Gruescu, A. Lovasz and V. Ciupe.- 5. A General Classification for Mechanisms Regarding the Motion Task, by B. Corves, S. Kurtenbach, M. Hsing, C. Schneider.- 2. Mechatronic and Biomechanic Applications: 6. Developments of a Knee Motion Assist Mechanism for Wearable Robot with a Non-circular Gear and Grooved Cams, by H. Terada, Y. Zhu, M. Suzuki , C. Cheng, R. Takahashi.- 7. Force Distribution for a Walking Robot with Articulated Body, by I. Doroftei, Ghe. Plesu and B. Stirbu.- 8. Numerical Root Finding from an Engineer's Point of View, by M. Frber and U. Dring.- 9. Kinetostatic Analysis of an Articulated Walking Mechanism, by F. Moldovan, V. Dolga and C. Pop.- 10. A Mirror Tracking Mechanism, by N.M. Dehelean, L.M. Dehelean.- 11. Choppers: Optomechatronic Devices for the Controlled Modulation of Light, by V.-F. Duma, M. F. Nicolov, M. Kiss, T. Ilca, C. Mnerie, D. Demian, L. Szantho.- 12. Motion Laws of a Varifocal Objective Working with a 1/2" CCD Camera, by C.M. Gruescu.- 3. Mechanisms and Machine Design: 13. A New Principle of Adaptive Compliant Gripper, by D. Petkovic, N. D. Pavlovic.- 14. Optimum Design of Cam Mechanisms, by I. Simionescu, M. Ene, L. Ciupitu.- 15. Linkage Solutions for the Manufacture of Complex, Thermoplastic Lightweight Structures, by M. Krahl, U. Hanke, K.-H. Modler.- 16. RBS Simulation of Integrated Piezo-Ceramic Actuation for Textile Reinforced Composite Compliant Mechanisms, by N. Modler, K.-H. Modler, W. Hufenbach, D. Margineanu, E.-C. Lovasz, D. Perju, E. Ianosi.- 4. Computational and Experimental Methods and Dynamics of Mechanisms and Machines: 17. Maximally Regular Planar Non Fully Parallel Manipulators, by G. Gogu.- 18. An Experimental Characterization of a Rickshaw Prototype, by T. Li, M. Ceccarelli.- 19. Considerations upon the Influence of Manufacturing and Assembly Errors on the Kinematic and Dynamic Behavior in a Flight Simulator Stewart-Gough Platform, by A. Pisla, T. Itul, D.

Pisla, A. Szilaghyi.- 20. Characterization of Flexure Hinges Using the Script Oriented Programming within a FEM Software Application, by I. Ivanov, B. Corves.- 21. Basic Result on Type II DM Self-motions of Planar Stewart Gough Platforms, by G. Nawratil.- 22. Active Bearing for Vibration Damping of Roller Systems with Piezoelectric Actuators, by M.-C. Voicu, R. Schmidt, B. Lammen, M. Mersch, I. Maniu.- 23. On the Kinematics of a Hybrid Parallel Robot Used in Minimally Invasive Surgery, by M. Suciu, B. Gherman, C. Vaida, N. Plitea, D. Pisla.- 5. Mechanical Transmissions: 24. Synthesis of Toothed Continuously Variable Transmission (CVT), by K.S. Ivanov.- 25. Differential Planetary Gear Transmissions Usable in Renewable Energy Systems, by R. Saulescu, C. Jaliu, D. Ciobanu, D. Diaconescu.- 26. Loading Devices for Closed-loop Gear Test Stands, by C. M. Gruescu, I. Nicoara, E. Busa.- Author index. EAN/ISBN : 9789400727274 Publisher(s): Springer, Berlin, Springer Netherlands Format: ePub/PDF Author(s): Lovasz, Erwin-Christian - Corves, Burkhard