

DESIGN OF MACHINES AND STRUCTURES

A Publication of the University of Miskolc

VOLUME 2, NUMBER 2 (2012)

CONTENTS

<i>János Bihari: Pneumobile Competition and Education</i>	5
<i>Ádám Döbröczöni – Csaba Dömötör – József Péter: TRIZ and Nature</i>	15
<i>Csaba Dömötör – József Péter: Natural Analogies and TRIZ</i>	23
<i>Csaba Dömötör – József Péter: Design Principles in Nature</i>	33
<i>Zsuzsa Drágár – László Kamondi: Asymmetrical Teeth Meshing near General Centre Distance</i>	43
<i>György Hegedűs – György Takács – Gyula Patkó: Collision Detection between Toolholder and Workpiece on Ballnut Grinding</i>	57
<i>László Kelemen – József Szente: Analysis of Gear Meshing for Gear Coupling</i>	67
<i>Géza Németh – József Péter – Ádám Döbröczöni: Helical Springs in Epicyclic Traction Drives</i>	81
<i>Géza Németh – József Péter – Ádám Döbröczöni: Ensuring of the Clamping Force in Epicyclic Traction Drive by a New Sun Wheel Design</i>	93
<i>József Péter – Géza Németh – Csaba Dömötör: Natural Analogies – Creative Principles of the Nature and the Product Designer</i>	101
<i>Attila Szilágyi – Gyula Patkó – Tibor Csáki – Balázs Barna: Dynamical Investigation of a Superfinishing Device</i>	115
<i>Renáta Szűcs – László Kamondi: Analytical Model to Determine Meshing Stiffness of Spur Gears</i>	123
<i>Renáta Szűcs – László Kamondi: Determination of Backlash for Gear Dynamic Analysis</i>	137
<i>Ágnes Takács: Environmentally Friendly Design Tools – Possibilities of the Application</i>	149