

Table of Contents

Preface

Identification of Complex Shear Modulus of MR Layer Placed in Three-Layer Beam – Part 1: Finite Element

M. Romaszko and J. Snamina 1

Identification of Complex Shear Modulus of MR Layer Placed in Three-Layer Beam – Part 2: Algorithm

M. Romaszko, J. Snamina and S. Pakuła 15

Adhesion of Cr/CrN Multilayers to Steel Substrates

M. Kot, K. Chronowska-Przywara, Ł. Major and J. Lackner 27

Magnetic Field Analysis of the Actuator in a Semi-Active Vibration Control of the Beam with MR Fluid

M. Romaszko and Ł. Łacny 37

Control Algorithms for Robot Manipulator

A. Nawrocka, A. Kot and M. Nawrocki 45

Selection of Drives for Prototype of Continuous Passive Motion Machine

I. Dominik and R. Dwornicka 51

Context Transformations of Range Images Using Directional Data Back Fill Algorithm

A. Sioma 59

Interval Type-2 Fuzzy Logic Control of Maglev Test Stand

I. Dominik 71

Semi-Active Suspension System for 2S1 Tracked Platform in Application of Improvement of the Vehicle Body Stability

T. Nabagło, A. Jurkiewicz and J. Kowal 77