

CONTENTS

<i>Leonardo Acho</i> A delta modulator technique to drive the chaotic duffing oscillator	4
<i>Boris Andrievsky and Peter Guzenko</i> Energy speed-gradient control of nonlinear satellite oscillations	9
<i>Teturo Itami</i> Quantum agents that obey Bose distribution	16
<i>Tatiana Khantuleva and Kamil Abdullaev</i> Internal control in nonequilibrium physical processes	21
<i>Begoña Mediano-Valiente and M. Isabel García-Planas</i> Modelling of a clamped-pinned pipeline conveying fluid for vibrational stability analysis	28
<i>Gerasimos Rigatos, Pierluigi Siano and Ivan Arsie</i> Nonlinear embedded control of spark-ignited engines using the derivative-free nonlinear Kalman filter	38