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Nota di contenuto	<p>""Title Page""; ""Preface""; ""List of Contributors""; ""Contents"";      ""Chapter 1. Vehicle Dynamics and System Design - History and Future Directions""; ""Historic Aspects and Future Research Directions in Vehicle Dynamics and System Design""; ""Past, Present and Future of Control Theory Applied to Autonomous Agents""; ""Chapter 2. Severe Environmental Conditions and Situations""; ""Experimental and Modeling Terramechanics Studies""; ""Terrorist Threats, Agile Vehicle Trajectory Deviation and Critical Reposition in Interaction with Environment""</p> <p>""Chapter 3. Vehicle Agility Fundamentals and Applications in Severe Driving Conditions""""Agility in Vehicle Dynamics and Relaxation Time Constants""; ""Modeling of Agile Stochastic Terrain Friction/Resistance Properties in Correletion with Terrian Geometry""; ""Fundamentals of Agile Terrain Mobility Evaluation of Unmanned Ground Vehicles"";</p> <p>""Chapter 4. Vehicle Mobility and Energy Efficiency""; ""Wheel - Vehicle - Step Obstacle Interaction""; ""Estimation of Soil Damage""; ""Vehicle Terrain Mobility Enhancement and Minimization of Energy Consumption""</p> <p>""A Method of a Wheel Power Distribution and Its Application to Vehicles""""Chapter 5. Inverse Vehicle Dynamics and Operational Fusion of Vehicle System Dynamics""; ""Inverse Dynamics Problems in Vehicle</p>

Applications"'; "'Passive and Active Operational Fusion of Vehicle System Dynamics (Coupled and Interactive Dynamics)"'; "'Chapter 6. Mathematical and Computational Techniques and Software Products"'; "'Treatment of Uncertainties in Multibody Dynamic Systems Using a Generalized Polynomial Chaos Approach; Case Study on a Full Vehicle"'; "'Application of the Generalized Polynomial Chaos to the LQR Control Problem with Uncertain Parameters in the Formulation"'; "'Multibody Dynamics Techniques for Real-Time Parameter Estimation"'; "'The Use of Multibody Systems in Vehicle Modelling Simulation"'; "'Chapter 7.'"; "'New Methods and Techniques in Online Control and Learning"'; "'Introduction on Reinforcement Learning, and Game Theory"'; "'Optimal Control"'; "'Optimal Control with Saturations"'; "'Event-Triggered Optimal Control"'; "'H-Infinity Control and Zero Sum Games"'; "'Multi-Player Non-Zero Sum Games"'; "'Graphical Games"'; "'Conclusion and Future Work"'; "'Chapter 8.'"; "'Mechatronics of Vehicle Control and Self-Powered Systems"'; "'Introduction to Mechatronics"'; "'Mechatronic Systems: Dynamic Models and Physical Component Topology"'; "'Control Performance in Agile Vehicles and Cyber Physical Systems"'; "'Self-Powered Dynamic Systems for Energy Efficiency"'; "'Mechatronic Design"'; "'Chapter 9. Tyre Modelling in Vehicle Dynamics"'; "'An Introduction to Tire Modelling"'; "'Tire Force and Moment Characteristics"'; "'Tire Modelling"'; "'Chapter 10. Vehicle Design and Analysis for Ride, Handling and Durability"'; "'The Role of the Suspension System'"

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