

# Table of Contents

<b>Introduction .....</b>	<b>1</b>
<b>Tires .....</b>	<b>3</b>
Mechanical Properties of Radial-Ply Aircraft Tires (2005-01-3438) .....	5
Hydroplaning of H-Type Aircraft Tires (2004-01-3119) .....	19
<b>Control Systems .....</b>	<b>27</b>
A Longitudinal Slip Tire Model for Brake Control Systems: Features and Uses in Simulation, Control Synthesis and Stability Analysis (2002-01-2949) .....	29
A Sliding Mode Observer Based ABS for Aircraft and Land Vehicles (2003-01-0252) .....	39
Braking Systems with New IMA Generation (2011-01-2662) .....	47
<b>Brakes .....</b>	<b>53</b>
Predicting Landing Gear Carbon Brake Vibration and Performance via Subscale Test and Analysis (2005-01-3437) .....	55
Adsorption and Desorption Effects on Carbon Brake Material Friction and Wear Characteristics (2005-01-3436) .....	65
Reducing Aircraft Brake Squeal with a Damped Brake-Rod (2000-01-5599) .....	83
Asymmetric Approach in Solving Aircraft Brake Vibration (2002-01-2948) .....	87
The Effect of Wear Groove on Vibration and Noise of Aircraft Brakes: Theoretical and Experimental Evidence (2008-01-2557) .....	95
Aircraft Electric Brakes - Technical Development (2002-01-2946) .....	103
<b>Appendix .....</b>	<b>113</b>
<b>About the Editor .....</b>	<b>117</b>