

A Long-Life Electro-Hydrostatic Actuator in FAST	1
ZHANG P., ZENG S., ZHAO S., NING S., CHEN K., CAO S., ZHAO Y., LIU H., YANG Y., Beijing Institute of Precision Mechatronics and Controls, <i>China</i>	
A Model-Based Design Approach for Preliminary Sizing of Electromechanical Actuators in Primary Flight Control Systems	7
SCHROEDER L., BORGES L., GOES L. C., Instituto Tecnológico de Aeronáutica/EMBRAER, <i>Brazil</i>	
A Novel Dual Redundancy Electronic Controller for UAV's Landing Gear Retraction/Extension Actuation System	16
CAO S., FENG W., QIAO S., MENG S., GUO Q., ZHANG P., ZHAO S., Beijing Institute of Precision Mechatronics and Controls, <i>China</i>	
A Novel High-Performance Active Damper for Helicopter Gearbox Vibration Control	20
BERTOLINO A. C., SORLI M., PORRO P. G., GALLI C., Politecnico di Torino / Elettronica Aster SpA, <i>Italy</i>	
A Systematic Approach to Sealing for Low Molecular Weight Gas in Static Applications	27
ANDERSEN T., BASHFORD P., Trelleborg Aerospace/Trelleborg Sealing Solutions, <i>Sweden/UK</i>	
Advances in Mechanical Transmission Design for Flight Control EMAs	32
PISPOLA G., CORRADI G., LAVATELLI A., TELTEU D., Umbragroup s.p.a./SABCA, <i>Italy/Belgium</i>	
An Actuation System Utilizing Preemptive Scheduling Technology for Unmanned Aircraft	37
LANDBERG M., BRAUN R., SETHSON M., KRUS P., Division of Fluid and Mechatronic Systems, Linköping University, <i>Sweden</i>	
Control Based Enhanced Regenerative Modes for Hydraulic MultiActuator Systems	43
BIDEAUX E., TARDY G., SMAOUI M., LANOIX A., Laboratoire Ampère, INSA Lyon/Volvo Compact Equipment/Cerebrum Ingénierie, <i>France</i>	
Demonstration of Roller Screw Technology as a Cost-effective Solution for More Active Primary Flight Controls of Next Generation Aircrafts	50
GROLL A., MONTERYMARD Y., LATARTE R., Schaeffler, <i>France</i>	
Developing a PHM System for Legacy Actuators - the Case of the A320 Spoiler	58
AUTIN S., DE MARTIN A., GUIDA R., JACAZIO G., Collins/Politecnico di Torino, <i>France/Italy</i>	
Dual EMA Actuation System for Flight Control Surface	66
PINEDO D., FERNANDEZ J. A., GALLEGO A., NOVILLO E., Compañía Española de Sistemas Aeronáuticos, S.A.U., <i>Spain</i>	
Dynamic Model of a Resonant Electromechanical De-icing System	71
POTHIN J., REYSSET A., BUDINGER M., POMMIER-BUDINGER V., Institut Clément Ader/ENAC ISAE-SUPAERO ONERA, <i>France</i>	
Electrical Actuation Technology for Aircraft Valves using Thermal Effects	78
MONTIN N., NOURY S., Equip'Aero Technique, <i>France</i>	
Electromechanical Actuator with Integrated ECU for Aircraft Cooling System	84
VILLANUEVA A., CAMACHO D., MACIAS R., NOVILLO E., AGUADO F., FERNANDEZ J. A., Compañía Española de Sistemas Aeronáuticos, S.A.U., <i>Spain</i>	
Experimental Investigation of Oscillating Bearings in EMA by Using Accelerated Lifetime Tests	93
SEFERLI T., KOWALSKI R., BIERIG. A., DREYER N., DLR German Aerospace Center /Liebherr-Aerospace Lindenberg GmbH, <i>Germany</i>	
Failure Transients Characterization for the Qualification of the Fail-safe EMA used for the Airbus RACER Flap Movables	100
DI RITO G., KOVEL R., LUCIANO B., SALVI F., NARDESCHI M., Università di Pisa/Airbus Helicopters/AESIS/Umbragroup, <i>Italy/France</i>	
Fuel Metering for Hydrogen Powered Aircraft	107
PLUMMER A., ADEYEMI D., BURDEN D., University of Bath/Moog Aircraft Group Tewkesbury, <i>United Kingdom</i>	
Health Monitoring Analysis and Fault Prediction of Harmonic Drives for Electro-mechanical Flight Control Actuators	112
BERTOLINO A. C., DE MARTIN A., GUIDA R., JACAZIO G., SORLI M., Politecnico di Torino, <i>Italy</i>	

Health Monitoring System for Electromechanical Actuation System Pre-Flight Status Assessment	119
GOMEZ DE MARISCAL B., VILLAR DOMINGUEZ A., GALLEGO A., FERNANDEZ J. A., NOVILLO E., LOPEZ DE CALLE K., FERNANDEZ A., EGAÑA I., Compañía Española de Sistemas Aeronáuticos, S.A.U./Fundacion Tekniker, <i>Spain</i>	
Identifying Key Predictors of Failure in Electro-Mechanical Actuator	127
RAUNIO V., ALENIUS M., PARTAP SINGH V., MINAV T., Faculty of Engineering and Natural Science, Tampere University, <i>Finland</i>	
Influence of the Spindle Flow Distribution Pair on the Performance of Micro Electro-hydrostatic Actuator	135
TONG C., ZANG Y., LI S., RUAN J., Zhejiang University of Technology, <i>China</i>	
Key Considerations for Future Distributed Flap Drive Systems based on Comparisons with an Electric Cargo Door Actuation System	143
BRADY M., FLEDDERMANN A., HASERODT J., Airbus Operations GmbH, <i>Germany</i>	
Laboratory Testing of Torque Control of Electro-Mechanical Flight Surface Actuation including Friction Compensation	150
SCHALLERT C., German Aerospace Center (DLR e.V.), <i>Germany</i>	
Magnetically Geared Blade Pitch Control Actuation – Test Results	158
DRAGAN R., BARRETT R., WILSON G., KINGHORN R., POWELL D., CALVERLEY S., Magnumatics Limited, <i>United Kingdom</i>	
Modelling and Performance Validation of a Novel Fault-Tolerant EHA for Helicopter Flight Controls	166
SUN M., FU J., WANG C., YU L., WANG W., BAI L., Beihang University/Avic, <i>China</i>	
Prestressed PZT Actuators for Electromechanical Resonant De-icing	173
SABATHÉ Y., BUDINGER M., POMMIER-BUDINGER V., Institut Clément Ader/ENAC ISAE-SUPAERO ONERA, Toulouse, <i>France</i>	
Sensor Fusion Controller for Fault Tolerant EMA	180
WANG R., VANDERWEIDE D., WALLACE R., Eaton, <i>United States</i>	
Servovalves Models for Customers	188
ACHILLE R., MARÉ J.-C., Politecnico di Torino/Institut Clément Ader, INSA Toulouse, <i>Italy/France</i>	
The Thrust Vector Actuation Systems (TVAS) of Ariane 6	194
LAVATELLI A., ALEXANDRE P., DE COSTER F., RONCHAIN P., VADALA G., SABCA, <i>Belgium</i>	
Validation of Skew Detection Concepts for Future Leading-Edge Slats	200
KRALL K., THIELECKE F., Hamburg University of Technology, Institute of Aircraft Systems Engineering, <i>Germany</i>	
Last page	206