THE STRUCTURAL DYNAMICS OF FLYING NON STOP FOR 100 DAYS .................................................. 801
L. Benassi, C. Aquilini
QUANTIFICATION OF NONLINEAR EFFECTS IN GUST LOAD PREDICTION ........................................ 815
C. Kaiser, D. Quero, J. Nitsche
AEROELASTIC TAILORING OF FLEXIBLE COMPOSITE AIRCRAFT .................................................... 830
M. Natella, R. De Breucker
WHIRL FLUTTER AND THE DEVELOPMENT OF THE NASA X-57 MAXWELL ........................................ 850
AEROELASTIC STABILITY ANALYSIS OF WIND TURBINES CONSIDERING THE INSTABILITIES KNOWN FROM ROTARY WING DYNAMICS .......................................................... 865
A. Resaean
SIZING AND TOPOLOGY DESIGN OF AN AEROELASTIC WINGBOX UNDER UNCERTAINTY .................... 885
B.K. Stanford, S. Roy
NONLINEAR HIGH FIDELITY STATIC AEROELASTIC EFFECT ON THE FLEXIBLE PITCHING MOMENT AERODYNAMIC COEFFICIENT FOR A TRANSPORT AIRCRAFT ........................................ 899
A.A. Verri, K.C. de Moraes, F.L.S. Bussamra, C.E.S. Cesnik
COUPLING OF AEROELASTIC AND PILOT DYNAMICS VIA BIODYNAMIC-FEEDTHROUGH IN PILOT-AUGMENTED OSCILLATIONS ................................................................. 906
D. Drewiacka, F.J. Silvestre, A.B.G. Neto
MULTIFIDELITY FLUTTER PREDICTION USING LOCAL CORRECTIONS TO THE GENERALIZED AIC ........... 924
A. Thelen, L. Leijssen, P. Beran
PARAMETRIC STUDY AND MITIGATION METHODS FOR WHIRL FLUTTER AFTER OCCURRENCE ON AN ELECTRIC PROPPELLER AIRCRAFT ......................................................... 948
K.J. Nelson, C.B. Hoover, J. Shen
A STATE-SPACE MODEL FOR LOADS ANALYSIS BASED ON TANGENTIAL INTERPOLATION .................... 964
D. Quero, C. Kaiser, P. Vuillemin, C. Poussot-Vassal
INVESTIGATION INTO GUST LOAD ALLEVİATION USING COMPUTATIONAL FLUID DYNAMICS ................. 989
P. Bekemeyer, R. Thomann, S. Timme
INCLUDING GEOMETRICALY NONLINEAR FLUTTER CONSTRAINTS IN HIGH FIDELITY AIRCRAFT OPTIMIZATION ............................................................. 1004
C.A. Lupp, C.E.S. Cesnik, P. Beran, J. Deaton, D. Easterling
ONLINE MONITORING OF FLUTTER STABILITY DURING WIND TUNNEL TESTING OF AN ELASTIC WING WITH PYLON AND ENGINE NACELLE WITHIN THE HMAE1 PROJECT ................................... 1022
M. Boswald, Y. Govers, G. Jelicic, R. Buchbach
HIGH BANDWIDTH MORPHING ACTUATOR FOR EXPERIMENTAL AEREOELASTIC CONTROL ..................... 1036
I. Isnardi, S. Fichera
A NEW FLUTTER PREDICTION ALGORITHM TO AVOID P-K METHOD SHORTCOMINGS ........................... 1047
L. Colo, G. Broux, E. Garrigues
FLIGHT MECHANICAL DESIGN, FLIGHT DYNAMICS, AND FLIGHT CONTROL FOR MULTIBODY AIRCRAFT: A SUMMARY .......................................................... 1066
A. Kothe
SMALL-DISTURBANCE-CFD-BASED AIRCRAFT FLUTTER INVESTIGATION INCLUDING POWERED ENGINE MODEL .......................................................... 1092
V. Rozov, M. Stuhlpafrer, M.F. Osma, C. Breitsamter