

JOINT OPERATION OF AIRCRAFT GAS TURBINE ENGINES AND FUEL AUTOMATED EQUIPMENT IN ACCELERATION AND BRAKING MODES

© 2006 D. A. Akhmedzyanov, I. A. Krivosheyev, R. A. Sunarchin

Ufa State Aviation Technical University

Problems of joint modeling of aircraft turbojet engines and fuel-regulating equipment in transition processes are discussed. Two approaches are compared- the method of structural patterns, transfer functions, using Laplace transformations accepted for designing control systems and the method based on imitation modeling which is used when designing an engine. The paper shows the necessity of creating devices to carry out investigations and to analyze the engine dynamic in conjunction with the system of automatic regulation.