aircraft dynamic system. The research target of IAAP is the aircraft, its goal is to solve the aerodynamic problem, the basic equation which has been used in IAAP is the equdtions of motion of flight mechanics and its research means is the fiter, prediction and estimation in cybernetics. So, IAAP is an interdisciplinary-science, which bridges the flight mechanics, aerodynamics, elasticity and cybernetics.

This paper reviews the theoretical results and the practical experience of IAAP which include model identification, parameter estimation, data pre-process and compatibility check, test design and optimum input, elasticity and unsteady flow effect, frequency-domain identification, closed-cycle system identification, identification accuracy and system validation.

Keywords *identification; modeling; parameter estimation; mode identification; aircraft; aerodynamic parameter; data process; flight test; state estimation*

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