


| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------|
|  National Aeronautical Laboratory | Documentation Sheet | Document Classification SECRET |
| Title : ESTIMATION OF THE LONGITUDINAL STABILITY CHARACTERISTICS OF MIG-21BIS AIRCRAFT FROM FLIGHT DATA | Document No. PD SE 8622 Date of issue: 11-12-86 | |
| Author(s) : S. SRINATH KUMAR, V. PARAMESWARAN, GIRIJA GOPALARATHNAM | Contents 37p, 12f, 6t, 6r | |
| Division : SYSTEMS ENGINEERING DIVISION | No. of copies: 30 | |
| External participation : Aircraft & Systems Testing Establishment (ASTE) | NAL Project No. SE-8-223 | |
| Sponsor : - | Sponsor's Project No. - | |
| Approval : Head, Systems Engineering Division b | | |
| Remarks : - | | |
| Keywords : Flight Test, Parameter Estimation, Stability derivatives | | |
| Abstract : This report presents the parameter estimation results derived from flight test data of a MIG-21BIS aircraft. The flight test program was executed by Aircraft & Systems Testing establishment (ASTE) and the flight data analysis was carried out at NAL. The aircraft was tested in four configurations to evaluate the effect of i) a vortex plate attached to the leading edge of the wing to improve the drag characteristics and ii) a larger saddle tank to improve the range. | | |