

C.P. No. 1000

LIBRARY
AIRCRAFT ESTABLISHMENT
BEDFORD.

C.P. No. 1000



MINISTRY OF TECHNOLOGY
AERONAUTICAL RESEARCH COUNCIL
CURRENT PAPERS

LIST OF CURRENT PAPERS

Numbers 951 - 1000

LONDON: HER MAJESTY'S STATIONERY OFFICE

1969

TWO SHILLINGS NET



List of Current Papers

published for

THE AERONAUTICAL RESEARCH COUNCIL
(Numbers 951 - 1000)

and placed on sale by H.M. Stationery Office

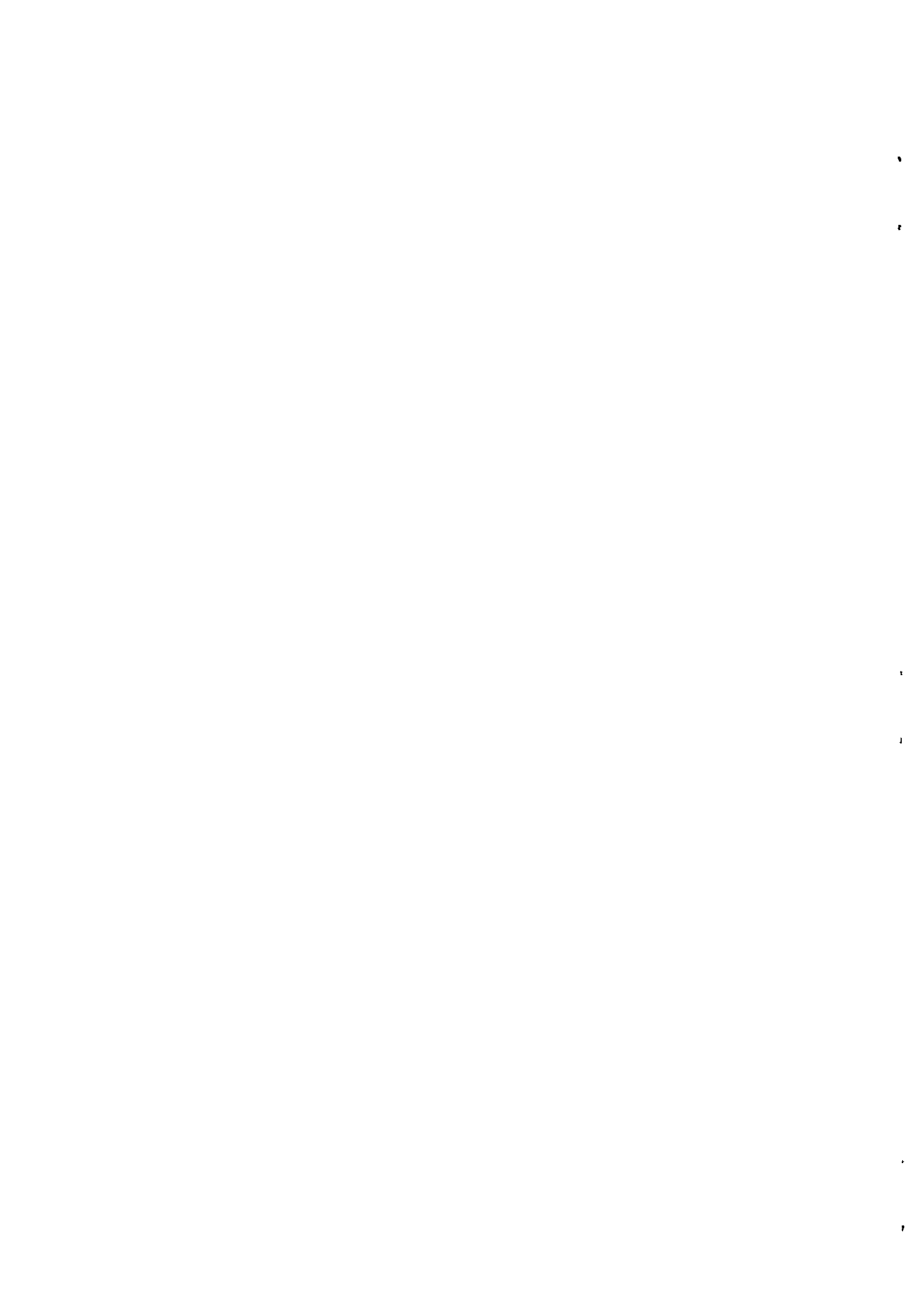
C.P. No.	Council No.	Title	author(s)
951	28 905	Some theoretical studies concerning oleo damping characteristics. (October, 1966)	Hall, H.
952	28 946	Crack propagation tests on 2024-T3 unstiffened aluminium alloy panels of various length-width ratios. (November, 1966)	Carter, T.J.
953	28 385	The thermal assessment of personal conditioning garments. (November, 1965)	Burton, D.R.
954	28 632	Measurements of wing buffeting on a scimitar model. (May, 1966)	Mabey, D.G.
955	26 204	Measurements at transonic speeds of the side force and yawing moment on various store arrangements mounted beneath a 45° swept wing-fuselage model. (June, 1964)	Marsden, P. and Haines, A.B.
956	28 155	Nitrogen condensation in the RARDE hypersonic gun tunnel. (May, 1966)	Bowman, J.E.
957	29 024	Computer programmes to calculate the response of flexible aircraft to gusts and control movements. (October, 1966)	Mitchell, C.G.B.
958	29 060	Measurements of drag, base pressure and base aerodynamic heat transfer appropriate to 8.5° semi-angle sharp cones in free flight at Mach numbers from 0.8 to 3.8. (December, 1966)	Greenwood, G.H.

C.P. No.	Council No.	Title	Author(s)
959	28 072	The influence of gas streams and magnetic fields on electric discharges. Part 3 Arcs in transverse magnetic fields at atmospheric pressure. (December, 1965)	Adams, V.W.
960	28 388	Free-flight measurements of the incremental drag due to engine nacelles on a transonic swept-wing aircraft. (June, 1966)	Hunt, G.K.
961	28 453	The velocity field near non-lifting delta wings according to supersonic linearized theory. (June, 1966)	Bartlett, R.S.
962	28 721	The effect of base bleed on the base pressure of several shrouded and unshrouded propelling nozzles at $M^\infty = 1.96$. (June, 1966)	Shaw, M.M.
963	28 235	The calculation of momentum thickness in a imbulent boundary layer at Mach numbers up to unity. (July, 1966)	Nash, J.F. and Macdonald, Miss A.G.J.
964	27 668	A preliminary experimental investigation of shock-wave development on aerofoils. (January, 1966)	Moulden, T.H. Cox, Miss I.J. and Stringfellow, Miss V.A.
965	28 406	Heat transfer in the vicinity of a 15° compression corner at Mach numbers from 2.5 to 4.4. (June, 1966)	Hastings, R.C. Brown, C.S. and Atkinson, Susan
966	28 457	Some further notes on the laminar boundary layer development and running time in a shock tube. (October, 1966)	Ackroyd, J.A.D.
967	27 733	The distribution of a wall pressure rise in a turbulent boundary layer. (November, 1965)	Herd, R.J.
968	28 449	The drag of some wedge centre-body intakes of Mach numbers of 1.56, 1.86 and 2.14. (July, 1966)	Dutton, R.A. and Goldsmith, E.L.

C.P. No.	Council No.	Title	Author(s)
969	29 039	An investigation into a technique for measuring jet interference effects using free-flight models. (November, 1966)	Greenwood, G.H.
970	29 160	Techniques for tests on structures subject to kinetic heating. (December, 1966)	Talbot, P.
971	27 510	Potential flow theory for tandem cascade by Howell's method. (December, 1965)	Yip, J.W. and Railly, J.W.
972	28 708	Guided weapons aerodynamic study. Force and moment measurement on some monoplane and cruciform slender wing-body combinations at $M = 4.0$. (October, 1966)	Roe, P.L.
973	26 715	Thermal conductance of metallic contacts - A survey. (July, 1964)	Wong, H.Y.
974	29 535	Civil aircraft airworthiness data recording programme study of severe turbulence encountered by civil aircraft. (June, 1967)	King, G.E.
975	29 320	Optimum fibre arrangements for reinforced sheets under combined loading. (November, 1966)	Harris, G.Z.
976	29 102	Cabin conditioning tests on a simulated M2.2 transport aircraft cabin. (April, 1966)	Hughes, T.L. and Timby, E.A.
977	28 521	Solution of the catapult take-off performance equations by an analogue method. (January, 1966)	Addicott, E.W. and Jones, R.W.
978	25 840	Leading-edge effects on caret wings. (January, 1964)	Cooke, J.C.
979	27 074	Experiments on methods for the numerical solution of a certain non-linear biharmonic equation. (June, 1964)	Abbott, M.R.
980	28 363	A pilot flight simulator study of speed instability during the landing approach. (April, 1966)	Perry, D.H.

C.P. No.	Council No.	Title	Author(s)
981	28 645	A survey of the infrared radiation properties of carbon dioxide. (December, 1966)	Hodgson, J.P.
982	29 308	On the equilibrium piston technique in gun tunnels. (July, 1967)	Davies, L. Regan, J.D. and Dolman, K.A.
983	29 280	Low-speed wind-tunnel tests on a 1/10th scale model of an air-cushion vehicle. (Britten-Norman Cushioncraft C.C.2) (December, 1966)	Trebble, W.J.G.
984	28 812	Drag measurements on a Series of afterbodies at transonic speeds showing the effect of sting interference. (September, 1966)	Kurn, A.G.
985	29 059	Measurements of pressure fluctuations and skin friction on the upper surface of a slender wing at lift (M = 0.8 to 2.0) (October, 1966)	Turner, K.J. and Walker, D.
986	28 771	The effect of initial conditions on the development of turbulent boundary layers. (February, 1967)	Bradshaw, P. and Ferriss, D.H.
987	29 302	The influence of gas streams and magnetic fields on electric discharges. Part 4 Arcs moving along straight parallel electrodes. (March, 1967)	Adams, V.W.
988	29 311	The influence of gas streams and magnetic fields on electric discharges. Part 5 Arcs at pressures up to 18 atmospheres in annular gaps. (April, 1967)	Adams, V.W.
989	29 065	The local pressure field of turbulent jets. (May, 1967)	Davies, P.O.A.L. Ko, N.W.M. and Rose, B.
990	29 356	A note on some static tests of flexible skirts for hovercraft. (February, 1966)	Lester, W.G.S. and Kiernan, F.T.

C.P. No.	Council No.	Title	Author(s)
991	28 492	The pressure distribution at zero lift on a slender delta wing at transonic speeds. (June, 1966)	Firmin, M.C.P.
992	29 233	A marching procedure for the determination of inviscid two-dimensional sonic flow past a blunt symmetrical body. (November, 1966)	Randall, D.G.
993	28 888	The calculation of sub-critical pressure distributions on symmetric aerofoils at zero incidence. (March, 1967)	Wilby, P.G.
994	29 420	Low speed wind-tunnel investigation of the roll stability of a 1/5 scale model of the short SC1 at large sideslip. (May, 1967)	Trebble, W.J.G.
995	28 574	The dynamic stability derivatives of a slender wing, a comparison of theory with free-flight model tests at near-zero lift, $M = 0.8$ to 2.4 . (June, 1966)	Turner, K.J. Ross, A.Jean and Earley, Geraldine
996	29 326	Correlation of voltage-current characteristics of wall-stabilised, free-burning and cross-flow arcs. (April, 1967)	Lord, W.T.
997	29 469	Further analysis of TSR.2 flights through turbulence. (May, 1967)	Saunders, T.B.
998	29 531	Gradient properties of a model of stationary random turbulence. (June, 1967)	Jones, J.G.
999	21 544	An investigation of the Rolling moments due to sideslip on high tailplanes at subsonic, transonic, and supersonic speeds. (May, 1959)	Mabey, D.G.
1000		List of Current Papers published for the Aeronautical Research Council - Nos. 951 - 1000	





© *Crown copyright* 1969

Printed and published by
HER MAJESTY'S STATIONERY OFFICE

To be purchased from
49 High Holborn, London WC1
13A Castle Street, Edinburgh EH2 3AR
109 St Mary Street, Cardiff CF1 1JW
Brazennose Street, Manchester M60 8AS
50 Fairfax Street, Bristol BS1 3DE
258 Broad Street, Birmingham 1
7 Linenhall Street, Belfast BT2 8AY
or through any bookseller

Printed in England