



THE AERONAUTICAL QUARTERLY

A JOURNAL DEVOTED TO AERONAUTICS AND THE ALLIED SCIENCES

Vol. XXXI

FEBRUARY 1980

Part 1

CONTENTS

- | | | |
|--|--|----|
| Calculation of Subsonic Normal Force and Centre of Pressure Position of Bodies of Revolution Using a Slender Body Theory – Boundary Layer Method | <i>K.D.Thomson</i> | 1 |
| The Axisymmetric Impingement of Supersonic Air Jets on Cones | <i>I.K.Jennions
and B.L.Hunt</i> | 26 |
| Design of Aerofoils for Prescribed Pressure Distribution in Viscous Incompressible Flows | <i>H.N.V.Dutt
and A.K.Sreekanth</i> | 42 |
| The Effect of Mean Loading on the Fluctuating Loads Induced on Aerofoils by a Turbulent Stream | <i>P.J.McKeough
and J.M.R.Graham</i> | 56 |
| The Pressure Distribution on the Surface of an Ellipsoid in Inviscid Flow | <i>E.G.U.Band
and P.R.Payne</i> | 70 |
| Corrigendum:
Pressure Gradient and Leading-Edge Effects on the Corner Boundary Layer | <i>M.Zamir
and A.D.Young</i> | 69 |

ROYAL AERONAUTICAL SOCIETY
4 HAMILTON PLACE, W1V 0BQ
LONDON

THE AERONAUTICAL QUARTERLY

Editorial Board

Professor W A Mair, CBE, MA, FRAeS (*Chairman*)
Sir Arnold Hall, MA, FRS, HonFRAeS, HonFAIAA
Dr J H Horlock, MA, PhD, FRS, FRAeS
Lord Kings Norton, DSc, DIC, PhD, HonFRAeS, FAIAA
Sir Alfred Pugsley, OBE, DSc, FRS, HonFRAeS
Professor S C Redshaw, DSc, PhD, FRAeS, FICE, FIStructE
Sir Owen Saunders, FRS, FRAeS
Professor W H Wittrick, ScD, PhD, FRAeS

Editor – Prof. L.F.Crabtree
Queen's Building
University Walk
Bristol BS8 1TR

Editorial Referees

It has been decided to omit the full list of referees, previously appearing on this page, and instead to acknowledge from time to time the help of those referees who have advised the editor during the previous year. A list of these appeared in the November 1979 issue.