



# THE AERONAUTICAL QUARTERLY

A JOURNAL DEVOTED TO AERONAUTICS AND THE ALLIED SCIENCES

Vol. XXXIV

February 1983

Part 1

## CONTENTS

- The Development of Intermittent  
Turbulence on a Swept Attachment Line  
Including the Effects of Compressibility *D.I.A. Poll* 1
- An Experimental Investigation of the Wake  
of an Axisymmetric Body with a Slanted  
Base *X.J. Xia*  
*and P.W. Bearman* 24
- On the Application of Linearized Theory  
to Multi-Element Aerofoils  
Part I: Tandem Flat Plate Aerofoils *G.D. Watt*  
*and G.V. Parkinson* 46
- Effect of Initial Conditions on Constant  
Pressure Mixing Between Two Turbulent  
Streams *S. Kangoui* 61
- Addendum: Unsteady Newton-Busemann Flow  
Theory Part III Frequency Dependence and  
Indicial Response *W.H. Hui* 75

ROYAL AERONAUTICAL SOCIETY  
4 HAMILTON PLACE, W1V 0BQ  
LONDON

# THE AERONAUTICAL QUARTERLY

## Editorial Board

As announced in the August 1982 issue, a new and enlarged Editorial Board has been appointed by Council of the Royal Aeronautical Society, with responsibility for all of the Society's publications.

The names of current members of this Board are published in the Annual Report of Council in May of each year, and copies may be obtained from the Secretary at 4 Hamilton Place.

**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 1982 issue.