


Hypersonic and High Temperature Gas Dynamics. J.D. Anderson. American Institute of Aeronautics and Astronautics, 801 Alexander Bell Drive, Reston, VA 20191, USA. 2000. 690pp. Illustrated. $64.95 (AIAA members), $94.95 (non-members) ISBN 1-56347-459-X.

First published in 1989 (and reviewed in The Aeronautical Journal June/July 1990), this is a welcome new edition of this textbook on inviscid and viscous hypersonic flow and high-temperature gasdynamics.

Air Transport


Over 100 photographs illustrate this history of the ocean-crossing network of flying boats operated by Pan American Airways that pioneered commercial air routes across the Pacific, North Atlantic and South America.


Times Subject to Tides: the Story of Barra Airport R. Calderwood. Kea Publishing, 14 Flures Crescent, Renfrewshire PA8 7JD, UK. 1999. 103pp. Illustrated. £10.75 inclusive of postage/packing. ISBN 0-9518958-3-4. A well-illustrated history of the Western Isles airport beginning with the services of Northern and Scottish Airways in 1936 and continuing to present times with a variety of operators using Shorts 360, Britten-Norman Islander and DHC-6 Twin Otter aircraft.


Civil Aircraft on Register 1998. ICAO Digest of Statistics No 470 International Civil Aviation Organization, 999 University Street, Montreal, Quebec, Canada, H3C 5H7. 2000. 177pp.


Airports and Route Facilities: Financial data and summary traffic data. ICAO Digest of Statistics No 476 International Civil Aviation Organization, 999 University Street, Montreal, Quebec, Canada, H3C 5H7. 2000. Irregular pagination.


Reproducing many images from the Royal Aeronautical Society Library collections, this is a pictorial history of the development of lighter-than-air technology from the Montgolfiers' first flights through to the endurance balloon flights and airship revival of today.


REPORTS

Aerodynamics
Dynamics of aircraft and elements


Flight data that included control hinge moments obtained for 20 conditions are compared to a linear aeroelastic model.


The Low Order Equivalent System allows information developed for the behaviour of an aircraft with classical control to be applied to aircraft with the additional dynamics of a computational control system.

Testing facilities and techniques

Aerospace engineering


Describes a satellite design to provide position and radial velocities of the stars in the Galaxy.


Describes six forthcoming space missions to study stellar evolution, Earth magnetic storms and the Sun; a Mars/asteroid fly-by; a successor to the Hubble telescope; space cold atom interferometry.

XEUS. The International Space Station takes astrophysics into a new era. ESA BR-166. August 2000.

XEUS is a proposal for an orbiting X-ray telescope.


‘Adopt’ a Library Book or Journal

Since its formation in 1866, the Royal Aeronautical Society has been acquiring aeronautical books, journals and other material which are now housed in its extensive library.

Owing to a combination of age and use, a number of the older volumes in the library are in a worn condition and require rebinding.

These books and journals date primarily from pre-1945 and form a major collection of the world’s aeronautical heritage which should be preserved for current and future generations of researchers.

The average cost of rebinding a worn volume is about £30, depending on its size and condition. Anyone who would like to contribute to rebinding costs will have their donation recorded on the bookplate inside the particular rebound volume. If you would like to ‘adopt’ a book or journal (possibly in memory of someone else) please contact Brian Riddle, RAeS Library, 4 Hamilton Place, London W1J 7BQ, UK. Tel: +44 (0)20 7670 4300. Fax: +44 (0)20 7670 4359. e-mail: library@raes.org.uk

November/December 2000

PAPERS


An Assessment of a Drawing of an Early Pilcher Glider held by the Royal


First published in 1979, this is a detailed hour-by-hour account of a key day during the Battle of Britain when more aircraft were destroyed than any other day during the aerial war over Britain as the Luftwaffe launched three major air assaults against targets in southern England.


First published in 1986, this is a revealing account of life during the Battle of Britain based on the recollections of many who were involved.


Based on the recollections of many who were involved, this is a detailed account of an airfield which was to make a notable contribution to Britain’s air defence during two world wars.


A detailed account of the 22 years of SAAF operations of this well-known jet fighter.

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The symposium provided information to service providers on possible application of satellite data relating to transport, environmental management, disaster prevention, Earth resources, health and education.


Space project management. Tailoring of space standards. ECSS-M-00-02A. April 2000.

Space project management. Risk assessment. ECSS-M-00-03A. April 2000.

Astronomy and geodesy


Communications

Fatigue


Fluid mechanics


Uses the Euler and Navier-Stokes equations to model flow in a channel with porous walls.

Information technology
ECSS. Standardization policy. ECSS-P-00A. April 2000.

Materials
Space project assurance. Flammability testing for the screening of space materials. ECSS-Q-70-21A. October 1999.

Propulsion

Safety

Strength analysis

Testing facilities and techniques

Space project assurance. Thermal vacuum outgassing test for the screening of space materials. ECSS-Q-70-02A. May 2000.


The system is for use in structural health monitoring.