November/December 2012

Library Additions

BOOKS

GENERAL


AERODYNAMICS


AEREOELASTICITY


AIR TRANSPORT


Aeronautical Information Services Provided by States. ICAO Doc 7383/100 — 100th edition. International Civil Aviation Organization, 999 University Street, Montreal, Quebec, Canada, H3C 5H7. 2012. Irregular pagination.


AIRCRAFT DESIGN AND CONSTRUCTION


GUIDED FLIGHT


HISTORICAL


Concluding with appendices recording ‘write-offs’ of the English Electric Lightning in its various variants in RAF service (76 separate incidents), this is a chronologically-based analysis of Lightning accidents and incidents incorporating the recollections of a number of the pilots involved.

LIGHTER-THAN-AIR


NAVIGATION


SERVICE AVIATION


Open Cockpit: a Pilot of the Royal Flying Corps. A Gould Lee. Grub Street, 4 Rainham Close, London SW11 6SS, UK. 2012. 218pp. Illustrated. £12. ISBN 978-1-908117-25-0. Originally published in 1969, this is a welcome new edition of this memoirs (which complements his earlier volume No Parachute [London: Jarrolds Publishers. 1968]) in which the author vividly recalls his experiences serving as a fighter pilot with the Royal Flying Corps during WW1 flying a variety of aircraft such as the Sopwith Pup/Camel, BE2d and FE2b against such foes as the ‘Red Baron.’

The Pathfinder Companion: War Diaries and Experiences of the RAF Pathfinder Force — 1942-1945. S Feast. Grub Street, 4 Rainham Close, London SW11 6SS, UK. 2012. 215pp. Illustrated. £20. ISBN 978-1-908117-34-2. Published to coincide with the 70th anniversary of the foundation of the Pathfinder Force in 1942, the recollections of many surviving veterans who were involved (based on recorded interviews) has been combined with official historical records and many contemporary photographs to provide a revealing month-by-month account of the key role that this section of Bomber Command performed during WW2.


SPACE


SYMPOSIA


The history of Project EMILY and the deployment of the Thor IRBM in eastern England, the Kennedy Administration and Project Apollo, the Maruca rocket, Fleurine rocket engines, the Ariane launcher, X-15B (an advanced variant of the North American X-15), HISPSATs, the Weapons Research Establishment (WRE) in Australia, EUROAVIA (European Association of Aerospace Students), the history of Spain and Portugal in space and the contributions of Konstantin
Konstantinov, Mykola Kibal’chich, Rudolf Hermann, V M Kozutsenko, Yuriy Kondratyuk (Olexander Shargey), Sir Hermann Bondi, Frank J Malina and Nikolai Fedorovich Gerasyuta are amongst the subjects discussed.


Aerospace Engineering

Astronomy
GAIA — ESA’s Galactic Census. S Clark. ESA BR-296. 2012. ISBN 978-92-9221-043-4. The GAIA space telescope is a global space astrometry mission which aims to produce the largest, most precise three-dimensional map of the galaxy by surveying the changing motions and brightness of more than a thousand million stars.


Communications

Electronics

Materials

Navigation

Remote Sensing


The DLR Project Wetter & Fliegen. Edited by T Gerz and C Schwarz. DLR FB 2012-02. 2012. The physics of aircraft wake vortices and wake vortex separation and how the phenomena may be predicted and potential safety hazards alleviated using advanced flight control systems is discussed in this detailed report of a major four-year DLR interdisciplinary project study.

Safety
Library's photographic collections

Developed by The Martin Co in response to a US Army Air Force specification of August 1945, the Matador subsonic surface-to-surface missile and its various variants — of which over 1,200 were produced — evolved into the first operational guided weapon used by the USAF. Equipped with either a conventional or nuclear warhead, the missile could be fired from mobile launchers or fixed emplacements, its swept-back detachable wings blown off after the dive signal was given to provide a more reliable ballistic trajectory to a predictable impact point, technology developed for the TM-61A (the first production design) being transferred to the design of the later Martin Co Mace surface-to-surface missile.

Main photo: Martin Matador immediately after launch from its zero-length launcher. From top right: Assemblies in which the Martin Matador is manufactured. Martin Matador immediately after launch from its zero-length launcher at the Air Force Missile Test Center, Cocoa, Florida. Martin TM-76 Mace on its zero-length launcher. 4 May 1956.

The Royal Aeronautical Society’s Library holds a very extensive photographic/glass lantern slide/lithographic collection of aviation images (over 100,000) from the early days of ballooning through to current aircraft, missiles and rockets, including a number of portrait photographs of aviation personalities. Scanned images from the collection can be supplied to members and non-members on a fee basis for reproduction in books, journals, CD-ROMs, Internet sites, lecture slides or for use as presentation prints.

All enquiries regarding the Library should be addressed to: Brian Riddle, Chief Librarian, National Aerospace Library, The Hub, Fowler Avenue, IQ Farnborough, Hants GU14 7JP, UK. T +44 (0)1252 701060. F +44 (0)1252 894894. E brian.riddle@aerosociety.com.