Library Additions
November/December 2011

BOOKS

AERODYNAMICS


AIR TRANSPORT


Location Indicators. ICAO Doc 7910/140 — 140th edition. International Civil Aviation Organization, 999 University Street, Montreal, Quebec, Canada, H3C 5H7. 2011. Irregular pagination.

Aeronautical Information Services Provided by States. ICAO Doc 7383/99 — 99th edition. International Civil Aviation Organization,
FAIREY IIIIF: INTERWAR MILITARY WORKHORSE

Philip Jarrett

sights) and of the specific wartime targets they were developed for.

FAIREY IIIIF: INTERWAR MILITARY WORKHOUSE. P Jarrett. Ad Hoc Publications, Cedars, Wattisham Road, Ringshall, Suffolk IP14 2HX, UK. 2011. 104pp. Illustrated. £16.95. ISBN 978-0-946958-75-7. The evolution and flight testing of the Supermarine swept-wing jet fighter — which was to evolve into a reconnaissance aircraft — is recalled by various former pilots in this well-illustrated volume.


A detailed review of the early development and production delays of the Avro Tudor I between 1943 and 1947 and the role played by BOAC.

Miles Aircraft Ltd — Western Manufacturing (Reading) Ltd: a Report on the Economic History of the Company. F G Miles Ltd. 1954. 20pp. A financial analysis of the company formerly known as Phillips and Powis Ltd from its incorporation as a public company on 11 March 1935 later to be renamed Western Manufacturing following the 1948 reconstruction. Throughout its lifetime the company was based at Reading Aerodrome (Woodley) in Berkshire.

MATHMATICS AND DYNAMICS


METEOROLOGY


PROPULSION


ROTORCRAFT


SERVICE AVIATION


THERMODYNAMICS


SYMPOSIA

History of Rocketry and Astronautics: Proceedings of the 37th History Symposium of the International Academy of Astronautics, Bremen, Germany, 2003

The contributions of Arthur Randolph, Hermann Oberth, Wernher von Braun, K E Tsiskovkavy, V S Budnik and German rocket engineers in Britain and America, the Dauphin, Eridan and Monica sounding rockets, Hermes spaceplane, the Atlas/Viking 4/H20/Vulcan 1 and 2/Vinci rocket engines, the V-2 rocket, the evolution of spaghetti tubular rocket engine chambers, spacesuits and the origin of US policy on space debris are among the subjects discussed.

History of Rocketry and Astronautics: Proceedings of the 38th History Symposium of the International Academy of Astronautics, Vancouver, British Columbia, 2004


Early rocketry in China and Romania, Avro Arrow, Blue Streak at Spadeadam, Faiottast at Woomera, the SEPR (Societé d’Etude de la Propulsion par Reaction) 25/48/63/65/81/84/844/S178 family of rocket engines, NPO Energomash, the Canadian space industry, spacesuits, the contributions of Robert H Goddard and O M Makarov, the evolution of the Space Station and the history of inertial navigation are among the subjects discussed.

PAPERS


B Riddle. The Turner Society, London. 2011. pp 14-18. Illustrated. Discusses in particular the 7 November 1836 flight in the Royal Vauxhall (later known as the Nassaue) balloon achieved by Charles Green, Robert Holland and Thomas Morck Mason — the flight of some 480 miles lasting 18 hours being the longest that Man had accomplished up to that time.

REPORTS

Aerothermodynamics


Communications


Provides an overview of ongoing payload data processor developments and related technologies.

Displays

The development of a sensor-based visualisation system which combines the optical flow of the cockpit display with the out-of-the-window view to overcome the problem of poor visibility is described in this thesis.

Production


Within a virtual production facility, the concept of production process optimisation is demonstrated using the example of an infrared heating process.


A novel manufacturing technology — Combined Prepeg and Infusion (CPI) — developed for the production of integrated composite structures is described.

Remote Sensing


Launched in April 2010, CryoSat carries a sophisticated radar altimeter that can measure the thickness of sea ice down to centimetres and detect changes in ice sheets, particularly around the edges where icebergs are calved from the vast ice sheets that cover Greenland and Antarctica.


Synthetic Aperture Radar (SAR) radar polarimetry allows polarised information to be measured in the signals backscattered from Earth to a satellite sensor. Polarimetric interferometry is achieved by using two polarimetric images, acquired from slightly different angles, to provide information on the 3D structure of the view.

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Library Additions
Library’s photographic collections

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.