BOOKS

AERODYNAMICS


AIR LAW


AIR TRANSPORT


AVIATION MEDICINE


hydrodynamic design of hulls, keels, sails and the typical aerofoil sections involved, the wind-tunnel testing of sailing boats and elements of boat hydrostatics are among the subjects discussed in this well-illustrated textbook.

RELIABILITY


ROTORCRAFT


Over 140 photographs captioned in detail illustrate this pictorial history of the development of the Cierva autogiros and other gyroplane designs through to the Fairey Jet Gyrodyne and Rotodyne rotocraft of the late 1950s.

SAFETY


SERVICE AVIATION


Including numerous colour diagrams illustrating the markings of the aircraft and service units involved, these volumes provide a detailed summary of the air operations in support of the D-Day landings and the Allied airfields involved.

Clipped Wings: the Rise and Fall of the Women Airforce Service Pilots (WASPs) of World War II. M Merryman. New York University Press, New York. 1998. 239pp. Illustrated. A detailed cultural study of the development of the Women Airforce Service Pilot (WASP) programme in which over 1,000 American women pilots served before it was disbanded in 1944 and the postwar struggle to receive recognition for their achievement.

SPACE

Introduction to the Mechanics of Space


Australian upper atmospheric research sounding rockets at Woomera (including Long Tom, Aeolus, Aero High, Kookaburra, Cockatoo, Lorikeet, Corella, HAT, HAD and the WRESAT programme), the development of rocketry in Japan, the Tengashima Space Center, the evolution of Japanese space policy, industrial space organisation in the Soviet Union, French solid motors for rockets and missiles, the VE 210 Rubis sounding rocket, SNECMA rocket engine test facilities and the contributions of Eugen Sanger, Fred L Whipple and VI Vozyuk are among the subjects discussed.


Asteroid missions, altitude determination, dynamics and control, orbit determination, trajectory design, rendezvous missions, space surveillance, spacecraft guidance and navigation, orbital debris and its removal, satellite constellations and lunar missions were among the areas discussed over the 152 papers presented.


‘Using UTC to determine the Earth’s rotation angle,’ UTC and the Hubble Space Telescope
flight software' and 'Computation Errors in Look Angle and Range due to Redefinition of UTC' are among the subjects discussed in the 22 papers presented.

**Annual International Flight Crew Training Conference 2011 — an International Approach to Flight Crew Training Standards**


**The Contribution of Flight Simulation to Aviation Safety**


**PAPERS**

**The Post-War Search for Germany's Technological Secrets: the D F McIntyre Memorial Lecture 2011 presented to the Royal Aeronautical Society — Prestwick Branch, Aviator Suite, Glasgow Prestwick Airport, 21 March 2011 [Held on DVD].**

Captain E Brown.

**REPORTS**

**Aerospace Engineering**


Includes, among many other papers, reviews of the sounding rocket and balloon research programmes of France, Germany, Norway, Switzerland, Russia and NASA.


**Communications**


Launched in November 2010, Hylas-1 is the first European satellite specifically designed to provide interactive broadband services.

**Remote Sensing**


Launched in March 2009, ESA's Gravity field and steady-state Ocean Circulation Explorer (GOCE) satellite has over the past two years mapped Earth's gravity with unprecedented precision to enable scientists to create Earth's ‘geoid' reference shape model — an imaginary global ocean dictated by gravity in the absence of tides and currents — used for accurately measuring ocean circulation, sea-level change and ice dynamics.


Cluster is a collection of four ESA spacecraft flying in formation around Earth relaying detailed information about the affects of solar wind in three dimensions.

**100 Years of Aviation: Twentieth Century in Pictures**

**Rotorcraft**

Computerbasierte Trajektorien-generierung fur einen bemannten Hubschrauber auf einen unvorbereiteten Landeplatz. T Strohmaier.


Algorithms using for the trajectory computation with respect to the procedures of a pilot during the approach and landing of a helicopter in conditions of degraded visual environment (DVE) are presented.
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.