

Annex A – AGARD and RTO Flight Test Instrumentation and Flight Test Techniques Series

1. Volumes in the AGARD and RTO Flight Test Instrumentation Series, AGARDograph 160

Volume Number	Title	Publication Date
1.	Basic Principles of Flight Test Instrumentation Engineering (Issue 2) Issue 1: Edited by A. Pool and D. Bosman Issue 2: Edited by R. Borek and A. Pool	1974 1994
2.	In-Flight Temperature Measurements by F. Trenkle and M. Reinhardt	1973
3.	The Measurements of Fuel Flow by J.T. France	1972
4.	The Measurements of Engine Rotation Speed by M. Vedrunes	1973
5.	Magnetic Recording of Flight Test Data by G.E. Bennett	1974
6.	Open and Closed Loop Accelerometers by I. McLaren	1974
7.	Strain Gauge Measurements on Aircraft by E. Kottkamp, H. Wilhelm and D. Kohl	1976
8.	Linear and Angular Position Measurement of Aircraft Components by J.C. van der Linden and H.A. Mensink	1977
9.	Aeroelastic Flight Test Techniques and Instrumentation by J.W.G. van Nunen and G. Piazzoli	1979
10.	Helicopter Flight Test Instrumentation by K.R. Ferrell	1980
11.	Pressure and Flow Measurement by W. Wuest	1980
12.	Aircraft Flight Test Data Processing – A Review of the State of the Art by L.J. Smith and N.O. Matthews	1980
13.	Practical Aspects of Instrumentation System Installation by R.W. Borek	1981
14.	The Analysis of Random Data by D.A. Williams	1981
15.	Gyroscopic Instruments and Their Application to Flight Testing by B. Stieler and H. Winter	1982
16.	Trajectory Measurements for Take-off and Landing Test and Other Short-Range Applications by P. de Benque D'Agut, H. Riebeek and A. Pool	1985

17.	Analogue Signal Conditioning for Flight Test Instrumentation by D.W. Veatch and R.K. Bogue	1986
18.	Microprocessor Applications in Airborne Flight Test Instrumentation by M.J. Prickett	1987
19.	Digital Signal Conditioning for Flight Test by G.A. Bever	1991
20.	Optical Air Flow Measurements in Flight by R.K. Bogue and H.W. Jentink	2003
21.	Differential Global Positioning System (DGPS) for Flight Testing by R. Sabitini and G.B. Palmerini	2008
22.	Application of Fiber Optic Instrumentation by W.L. Richards, A.R. Parker Jr., W.L. Ko, A. Piazza and P. Chan	2012

2. Volumes in the AGARD and RTO Flight Test Techniques Series

Volume Number	Title	Publication Date
AG237	Guide to In-Flight Thrust Measurement of Turbojets and Fan Engines by the MIDAP Study Group (UK)	1979
The remaining volumes are published as a sequence of Volume Numbers of AGARDograph 300.		
1.	Calibration of Air-Data Systems and Flow Direction Sensors by J.A. Lawford and K.R. Nippres	1988
2.	Identification of Dynamic Systems by R.E. Maine and K.W. Iliff	1988
3.	Identification of Dynamic Systems – Applications to Aircraft Part 1: The Output Error Approach by R.E. Maine and K.W. Iliff	1986
	Part 2: Nonlinear Analysis and Manoeuvre Design by J.A. Mulder, J.K. Sridhar and J.H. Breeman	1994
4.	Determination of Antenna Patterns and Radar Reflection Characteristics of Aircraft by H. Bothe and D. McDonald	1986
5.	Store Separation Flight Testing by R.J. Arnold and C.S. Epstein	1986
6.	Developmental Airdrop Testing Techniques and Devices by H.J. Hunter	1987
7.	Air-to-Air Radar Flight Testing by R.E. Scott	1992
8.	Flight Testing under Extreme Environmental Conditions by C.L. Henrickson	1988
9.	Aircraft Exterior Noise Measurement and Analysis Techniques by H. Heller	1991
10.	Weapon Delivery Analysis and Ballistic Flight Testing by R.J. Arnold and J.B. Knight	1992
11.	The Testing of Fixed Wing Tanker & Receiver Aircraft to Establish Their Air-to-Air Refuelling Capabilities by J. Bradley and K. Emerson	1992
12.	The Principles of Flight Test Assessment of Flight-Safety-Critical Systems in Helicopters by J.D.L. Gregory	1994
13.	Reliability and Maintainability Flight Test Techniques by J.M. Howell	1994
14.	Introduction to Flight Test Engineering Issue 1: Edited by F. Stoliker Issue 2: Edited by F. Stoliker and G. Bever	1995 2005
15.	Introduction to Avionics Flight Test by J.M. Clifton	1996

16.	Introduction to Airborne Early Warning Radar Flight Test by J.M. Clifton and F.W. Lee	1999
17.	Electronic Warfare Test and Evaluation by H. Banks and R. McQuillan	2000
18.	Flight Testing of Radio Navigation Systems by H. Bothe and H.J. Hotop	2000
19.	Simulation in Support of Flight Testing by D. Hines	2000
20.	Logistics Test and Evaluation in Flight Testing by M. Bourcier	2001
21.	Flying Qualities Flight Testing of Digital Flight Control Systems by F. Webster and T.D. Smith	2001
22.	Helicopter/Ship Qualification Testing by D. Carico, R. Fang, R.S. Finch, W.P. Geyer Jr., Cdr. (Ret.) H.W. Krijns and K. Long	2002
23.	Flight Test Measurement Techniques for Laminar Flow by D. Fisher, K.H. Horstmann and H. Riedel	2003
24.	Precision Airdrop by M.R. Wuest and R.J. Benney	2005
25.	Flight Testing of Night Vision Systems in Rotorcraft by G. Craig, T. Macuda, S. Jennings, G. Ramphal and A. Stewart	2007 [†]
26.	Airborne Laser Systems Testing and Analysis by R. Sabatini and M.A. Richardson	2010
27.	Unique Aspects of Flight Testing Unmanned Aircraft Systems by A.E. Pontzer, M.D. Lower and J.R. Miller	2010

At the time of publication of the present volume, the following volumes are in preparation:

Electronic Warfare Test and Evaluation (expected August 2012)

Safety and Risk Management in Flight Testing (expected December 2013)

Aircraft Stores Compatibility, Integration, and Separation Testing (expected December 2014)

Reduced Friction Runway Surface Flight Testing (expected December 2014)

High Altitude Rotary Wing Flight Testing (expected December 2015)

[†] Volume 25 has been published as RTO AGARDograph AG-SCI-089.