

**00001**

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AERODYNAMICS SERIES ORGANISATION

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## AERODYNAMICS SERIES ORGANISATION

### 1. PREFACE TO AERODYNAMICS SERIES

ET Data Items provide validated information in engineering design and analysis for use by, or under the supervision of, qualified engineers. The data are founded on an evaluation of all the relevant information, both published and unpublished, and are invariably supported by original work of ET staff engineers or consultants. The whole process is subject to independent review for which crucial support is provided by industrial companies, government research laboratories, universities and others from around the world through the participation of some of their leading experts on ET Technical Committees. This process ensures that the results of much valuable work (theoretical, experimental and operational), which may not be widely available or in a readily usable form, can be communicated concisely and accurately to the engineering community.

ET Data Items are organised in Series. The Series on aerodynamics is prepared under the guidance of the Aerodynamics Committee which has the following constitution:

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\* Corresponding Member

#### **Technical Staff**

Mr R.W. Gilbey – Head of Aircraft Aerodynamic Group

Mr C.J. Batt – Engineer, Aircraft Aerodynamics Group

Users of the ET service are encouraged to regard ET as a widely based group of people constantly available to answer questions and discuss the application of data in engineering.

## 2. VOLUMES AND GUIDE CARD SECTIONS FOR AERODYNAMICS SERIES

VOLUME 1a	GENERAL Organisation Properties of gases Isentropic flow and shock waves
VOLUME 1b	GENERAL Properties of the atmosphere
VOLUME 1c	GENERAL Wind speeds and atmospheric turbulence
VOLUME 2a	AEROFOILS AND WINGS General Aerofoils at subcritical speeds – pressure distribution, lift, pitching moment, aerodynamic centre
VOLUME 2b	AEROFOILS AND WINGS Aerofoils at subcritical speeds – drag
VOLUME 2c	AEROFOILS AND WINGS Aerofoils at supersonic speeds – pressure distribution, lift, pitching moment, drag Critical Mach number and pressure coefficient Flat plates – boundary layers, skin friction and surface roughness
VOLUME 2d	AEROFOILS AND WINGS Wings – lift, pitching moment, aerodynamic centre, spanwise loading
VOLUME 2e	AEROFOILS AND WINGS Wings – lift, pitching moment, aerodynamic centre, spanwise loading (continued)
VOLUME 2f	AEROFOILS AND WINGS Wings – drag
VOLUME 3a	BODIES General
VOLUME 3b	BODIES Drag
VOLUME 3c	BODIES Drag (continued)
VOLUME 3d	BODIES Pressure distribution, normal force, pitching moment, centre of pressure
VOLUME 4a	WING-BODY COMBINATIONS Lift, normal force, pitching moment, aerodynamic centre, upwash
VOLUME 4b	WING-BODY COMBINATIONS Lift, normal force, pitching moment, aerodynamic centre, upwash (cont.) Drag
VOLUME 5a	CONTROLS AND FLAPS Controls – lift, pitching moment, rolling moment, drag
VOLUME 5b	CONTROLS AND FLAPS Controls – hinge moment

VOLUME 5c	CONTROLS AND FLAPS Flaps – lift: aerofoils
VOLUME 5d	CONTROLS AND FLAPS Flaps – lift: wings
VOLUME 5e	CONTROLS AND FLAPS Flaps – lift curve Flaps – drag
VOLUME 5f	CONTROLS AND FLAPS Flaps – pitching moment
VOLUME 6a	EXCRESCENCE DRAG Excrescence drag
VOLUME 6b	EXCRESCENCE DRAG Excrescence drag (continued)
VOLUME 6c	CAVITY DRAG, UNDERCARRIAGE DRAG, CANOPY DRAG Cavity drag Undercarriage drag Canopy drag
VOLUME 6d	CAVITY AERODYNAMICS AND AERO-ACOUSTICS Cavity aerodynamics and aero-acoustics
VOLUME 7a	INTERNAL FLOW SYSTEMS Ducts Nacelles, intakes, nozzles
VOLUME 7b	INTERNAL FLOW SYSTEMS Nacelles, intakes, nozzles (continued)
VOLUME 8	POWERPLANT/AIRFRAME INTERACTIONS Propeller powered aircraft Jet powered aircraft
VOLUME 9a	STABILITY OF AIRCRAFT General Longitudinal stability –ground effect, downwash, tandem lifting surfaces, tailplanes
VOLUME 9b	STABILITY OF AIRCRAFT Longitudinal stability – derivatives due to rate of pitch Pitch-break characteristics
VOLUME 9c	STABILITY OF AIRCRAFT Lateral stability – derivatives due to sideslip
VOLUME 9d	STABILITY OF AIRCRAFT Lateral stability – derivatives due to sideslip (continued)
VOLUME 9e	STABILITY OF AIRCRAFT Lateral stability – derivatives due to rate of roll – derivatives due to rate of yaw
VOLUME 10	UNSTEADY AERODYNAMICS Unsteady aerodynamics

VOLUME 11a	BLUFF BODIES AND STRUCTURES Mean forces
VOLUME 11b	BLUFF BODIES AND STRUCTURES Fluctuating forces and response
VOLUME 12	AERODYNAMIC HEATING AND HEAT TRANSFER Aerodynamic heating and heat transfer
VOLUME 13	WIND-TUNNEL CORRECTIONS Wind-tunnel corrections
VOLUME SW	SOFTWARE Software

3. LOCATION SCHEDULE FOR DATA ITEMS IN AERODYNAMICS SERIES

Item No.		Volume	Item No.		Volume
	00.01.06	1a	Controls	01.01.01	9c
	00.01.07	1a		01.01.03	5a
	00.01.08	1a		01.01.04	5a
	00.01.09	1a		04.01.00	5b
	00.01.11	1a		04.01.01	5b
	00.01.12	1a		04.01.02	5b
	00.02.05	12		04.01.03	5b
	00.03.05	1a		04.01.04	5b
	00.03.26	12		04.01.06	5b
	0003.28	1a		04.01.08	5b
	00.03.30	1a		08.01.01	5a
	00.03.31	1a			
			Flaps	01.01.08	5d
A1	7a			01.01.09	5d
A2	1c, 11a, 11b			02.01.06	5e
AEROSW	SW			02.01.07	5e
				02.01.08	5e
S.00.01.10	7a			05.01.01	5c
S.00.03.06	1a			08.01.01	5f
S.00.03.07	7a			08.01.02	5f
S.00.03.08	1a		Wings	00.03.01	2b
S.00.03.09	1a			01.01.01	2c
S.00.03.13	1a			01.01.04	2c
S.00.03.14	1a			01.01.05	2a
S.00.03.15	1a			01.01.07	2a
S.00.03.16	1a			02.04.00	2b
S.00.03.22	1a			02.04.01	2b
S.00.03.23	1a			02.04.02	2b
S.00.03.27	1a			02.04.03	2b
Aircraft	02.03.02	4b		02.04.09	2b
	06.01.00	9a		02.04.11	2b
	06.01.01	9e		05.01.01	9a
	06.01.03	9c			
	06.01.09	9c		S.00.03.03	2b
	07.01.00	9a		S.00.03.04	2b
	08.01.05	2a		S.00.03.05	2b
	08.01.09	7a		S.00.03.18	12
				S.02.03.02	2e
	S.01.03.02	9d		S.02.03.07	2b
	S.02.03.01	4b		S.02.03.09	2e
	S.06.03.01	9e		S.02.03.10	2b
	S.06.03.02	9e		S.02.04.12	2b
Bodies	S.06.03.03	9e		S.02.04.13	2b
	S.06.03.04	9d		S.05.03.01	2b
				S.08.03.02	9b
	S.02.03.01	3b			
	S.02.03.02	3b			
	S.02.03.08	3b			
	S.02.03.12	3b			
	S.05.03.01	3d			

Item No.	Volume	Item No.	Volume	Item No.	Volume	Item No.	Volume
66028	7a	76033	3b	84020	10	92007	9c
66031	2f	77012	4a	84026	2a	92024	4b
66032	2f	77020	3b	84035	6a	92029	9d
66034	2a	77021	1b	85006	9e	92031	5d
67011	2b	77028	3a	85010	9e	92039	6b
67035	7a	77032	11b	85015	8	92043	4b
67041	6c	78008	1b	85017	8	93007	9d
68019	2c	78013	4a	85020	1c	* 93015	2e
68020	2c	78017	1b	86002	7b	93019	5d
68021	3b	78019	3b	86010	1c	93032	6b
69009	12	78037	3a	86017	8	93034	2e
69010	12	78041	3b	86021	9a	94026	5c
69011	12	79006	9c	86041	9a	94027	5c
69012	12	79015	6c	* 87001	2d	94028	5c
70008	1a	79020	3a	* 87005	5e	94029	5c
70009	1a	79022	3b	* 87008	5a	94030	5c
70010	1a	79025	11b	87012	10	94031	5c
* 70011	2d	79026	11a	* 87024	5e	* 94037	2f
* 70012	2d	80003	11a	87031	2d	* 94038	2f
70015	2d	80006	3b	* 87033	3d	95009	4b
71006	2d	80020	9a	87035	11b	* 95010	2e
71007	2d	80021	3b	88003	5b	95021	5d
71012	11a	80024	13	* 88013	5a	95022	2e
71016	11a	80025	11a	* 88029	5a	95025	2f
71017	9e	80033	9c	88030	2d	96003	5d
71018	6a	80034	9c	88031	8	96012	3b
71020	2a	80037	7a	* 88040	5a	* 96025	2f
72021	9e	81004	7a	* 89008	3d	96026	5a
72023	9a	81013	9c	89009	5b	96032	5e
72024	2a	81014	9e	89010	5b	96033	3c
73006	9c	81017	11a	* 89014	3d	97002	5c
73016	2c	* 81023	9a	89029	9a	97003	5c
73017	1b	* 81024	7a	* 89034	2e	97009	5d
74008	2c	81032	9c	89042	4a	97011	5d
74009	5d	81034	10	* 89047	8	97020	2a
74010	5e	82005	10	* 90005	10	97021	9a
74011	5a	82010	9c	90010	9b	97022	3c
74012	5a	82011	9c	90013	2e	98009	5f
74030	1c	82017	9e	* 90020	4a	98011	2a
* 74035	2f	82018	3d	90029	6a	98017	5f
74036	6c	82020	10	90030	5a	* 99003	2a
75004	2f	82026	1c	* 90034	3d	99004	5f
75005	7a	82028	3b	91004	9b	99010	3c
75027	2c	82034	8	91007	4b	99014	5f
75028	6a	83006	9e	91009	9a	* 99031	5e
75031	6a	* 83010	10	91014	5d	00001	1a
76003	2a	83025	6a	* 91028	6b	00006	6c
76008	6a	83026	9e	91029	6b	00007	6c
76015	4a	83040	2e	91031	9d	00009	1a
76026	5a	83045	1c	91042	4b	00017	3c
76028	13	84002	9e	92002	5a	* 00025	9d

\* A program associated with this Item is given on the CD-ROM in the Aerodynamics Software Volume.



Item No.	Volume	Item No.	Volume	Item No.	Volume	Item No.	Volume
00026	3b						
00027	2b						
00028	3d						
00029	5f						
01005	9b						
* 01007	5e						
01012	3c						
01013	5f						
02008	6d						
02012	3c						
03006	7b						
03017	5f						
04007	3d						
04023	6d						
05015	3d						

\* A program associated with this Item is given on the CD-ROM in the Aerodynamics Software Volume.

4. AMENDMENT RECORD FOR AERODYNAMICS SERIES

So that the user may at any time check where previous amendments to the Series have been made, the following is a complete list of those changes. Further details relating to the changes made may always be obtained from ET. An asterisk (\*) in the left-hand margin denotes a change from the previous issue.

This list is complete up to Supplementary Issue No. 170 December 2005. The following table is provided for hard-copy subscribers to record that they have checked that their set is complete, and to record the incorporation of further amendments.

Supplementary Issue No.	167	168	169	170			
Amendments carried out by	ET	ET	ET	ET			
Date	09/04	11/04	5/05	12/05			

Item	Change	Dated
00.00.00	Withdrawn	May 1976
00.01.01	Withdrawn	Superseded by 78017.
00.01.02		
00.01.03	Withdrawn	Superseded by 77021
00.01.04		Oct. 1977
00.01.05	Withdrawn	Superseded by 78008
00.01.06	Amend. A	Replaced by reprint.
00.01.07	Amend. A	Replaced by reprint.
00.01.08	Amend. A	Replaced by reprint.
00.01.09	Amend. A	Replaced by reprint.
00.01.11	Amend. A	Replaced by reprint.
00.01.12	Amend. A	Replaced by reprint.
00.02.01	Withdrawn	Superseded by 73017.
00.02.02		Aug. 1973
00.02.05	Amend. A	Replaced by reprint.
00.02.07	Withdrawn	Superseded by 67040
00.02.08		Nov. 1967
00.02.09	Withdrawn	Superseded by 77008.
00.02.10	Withdrawn	Superseded by 67040.
00.03.00	Withdrawn	May 1977
00.03.01	Withdrawn	Superseded by 74008.
00.03.02		Nov. 1967
		May 1988
		Apr. 1974

Item		Change	Dated
00.03.03	Withdrawn		Feb. 1948
00.03.04	Withdrawn	Superseded by 73017.	Aug. 1973
00.03.05		Replaced by reprint.	July 1971
00.03.24	Withdrawn	Superseded by 74029.	Oct. 1974
00.03.26	Amend. A	Replaced by reprint	Apr. 1973
00.03.28	Amend. A	Replaced by reprint.	Feb. 1978
00.03.30	Amend. A	Replaced by reprint. (Figure 1 misprinted in some earlier versions.)	Jan. 1999
00.03.29	Withdrawn	Superseded by 72011.	June 1972
02.00.01	Withdrawn	Superseded by 72009	June 1972
02.00.02	Withdrawn	Superseded by 72010.	June 1972
A.00.00.02			
A.00.00.03	Withdrawn	Superseded by 86021.	Oct. 1986
A.00.00.04			
A.00.00.05	Withdrawn	Superseded by 86041.	Dec. 1986
A.00.00.06			
A.01.01.01	Withdrawn	Superseded by 72023.	Oct. 1972
A.02.03.02	Amend. A	Replaced by reprint.	Dec. 1982
A06.01.00	Amend. I	Replaced by reprint.	Oct. 1986
A.06.01.01	Amend. A	Replaced by reprint.	Mar. 1981
A06.01.02	Withdrawn	Superseded by 72021.	Sept. 1972
A.06.01.03	Amend. B	Replaced by reprint.	Apr. 1973
A.06.01.04	Withdrawn	Superseded by 80033.	Dec. 1980
A.06.01.05	Withdrawn	Superseded by 73006.	June 1983
A.06.01.06	Withdrawn	Superseded by 70006.	June 1970
A.06.01.07	Withdrawn		Aug. 1973
A.06.01.08	Withdrawn	Superseded by 72021.	Sept. 1974
A.06.01.09	Amend. A	Replaced by reprint incorporating A.06.01.10 and 11.	July 1979
	Amend. B	Pages 1 and 2 replaced by reprints to delete reference to C.06.01.01 on page 2.	Aug. 1988
A.07.01.00	Amend. G	Replaced by reprint.	Oct. 1986
A.07.01.01	Withdrawn	Superseded by 79006	June 1979
A.07.01.02	Withdrawn	Superseded by 71017	Sep. 1971

Item		Change	Dated
A.08.01.01	Withdrawn	Superseded by 76015	Sep. 1976
A.08.01.02			
A.08.01.03	Withdrawn	Superseded by 80020	Oct. 1980
A.08.01.04			
A.08.01.05	Amend. A.	Replaced by reprint.	Apr. 1973
A08.01.07	Withdrawn	Superseded by 89042.	Nov. 1989
A08.01.09	Amend. A	Replaced by reprint.	Feb. 1981
A.S.01.03.01	Withdrawn	Superseded by 91007	July 1991
A.S.01.03.02	Amend. A	Replaced by reprint.	Dec. 1982
A.S.02.03.01	Amend. A	Page 2, Equations (1) and (2), limits of integration read “ $\int_0^l \int_0^l$ ”; Last line, for, for “1” read “ $l$ ”. These amendments are incorporated in July 1969 reprint.	Oct. 1971
	Amend. B	Page 3, label directly following first equation in Section 3.1.	May 1975
A.S.06.03.01	Amend. A	Replaced by reprint	Oct. 1982
A.S.06.03.02	Amend. A	Replaced by reprint	Oct. 1982
A.S.06.03.03	Amend. A	Replaced by reprint	Oct. 1982
A.S.06.03.04	Amend. B	Replaced by reprint	May 1987
B.00.03.01	Withdrawn	Superseded by 78037	Oct. 1978
B.02.04.00	Withdrawn		Dec. 1978
B.02.04.01			
B.02.04.02	Withdrawn	Superseded by 78019.	Aug. 1978
B.02.04.03			
B.S.01.03.1	Withdrawn	Superseded by 83039	Dec. 1983
B.S.01.03.02	Withdrawn	Superseded by 83039	Dec. 1983
B.S.01.03.03	Withdrawn	Superseded by 84010	July 1984
B.S.01.03.04	Withdrawn	Superseded by 83039	Dec. 1983
B.S.02.03.01	Amend. C	Replaced by reprint	Jan. 1981
B.S.02.03.02	Amend. B	Replaced by reprint incorporating B.S. 02.03.03 to 05 and 07.	Jan. 1980
	Amend. C	Replaced by reprint incorporating additional cross-references.	Dec. 1996
B.S.02.03.06	Withdrawn	Superseded by 80021	Nov. 1980
B.S.02.03.08	Amend. A	Replaced by reprint incorporating B.S.02.03.09 to 11.	Jan. 1980

Item		Change	Dated
B.S.02.03.12	Amend. A	Replaced by reprint incorporating amendments arising from issue of 79022.	Nov. 1979.
B.S.05.03.01	Amend. A	Replaced by reprint incorporating B.S.05.03.02 and 03.	Mar. 1980
B.S.05.03.04	Withdrawn	Superseded by 82018.	July 1982
B.S.08.03.01	Withdrawn	Superseded by 83039.	Dec. 1983
B.S.08.03.02	Withdrawn	Superseded by 83039.	Dec. 1983
B.S.08.03.03	Withdrawn	Superseded by 84014.	July 1984
B.S.08.03.04	Withdrawn	Superseded by 83039.	Dec. 1983
C.01.01.01	Amend. B	Replaced by reprint incorporating amendments to provide compatibility with 82010.	Apr. 1982
C.01.01.02	Withdrawn	Superseded by 92007	Mar. 1992
C.01.01.03	Amend. B	Replaced by reprint.	May 1978
C.01.01.04	Amend. A	Replaced by reprint	May 1980
C.01.01.05	Withdrawn	Superseded by 82010.	July 1982
C.01.01.06	Withdrawn	Superseded by 74011.	July 1974
C.04.01.00	Amend. C	Replaced by reprint incorporating amendments reflecting issue of 89009 and 89010.	Aug. 1989
C.04.01.01	Amend. B	Replaced by reprint.	Aug. 1989
C.04.01.02	Amend. B	Replaced by reprint.	Aug. 1989
C.04.01.03	Amend. B	Replaced by reprint.	Aug. 1989
C.04.01.04	Amend. B	Replaced by reprint.	Aug. 1989
	Amend. C	Replaced by reprint to correct ordinate scale of Figure 1 to read from 0 to 0.06.	Sep. 1994
C.04.01.05	Withdrawn	Superseded by C.04.01.06 and 89009.	Sep. 1989
C.04.01.06	Amend. B	Replaced by reprint incorporating C.04.01.05.	Aug. 1989
C.04.01.07	Withdrawn	Superseded by 88003.	Sep. 1989
C.04.01.08	Amend. B	Replaced by reprint to incorporate theoretical factor allowing for sweepback and first-order compressibility effects.	Aug. 1989
C.04.01.09	Withdrawn	Superseded by 89010.	Sep. 1989
C.06.01.01	Withdrawn	Superseded by 88013.	Aug. 1988
C.08.01.01	Amend. A	Replaced by reprint.	Mar. 1981
F.00.01.00	Withdrawn	Superseded by 75013.	July 1975

Item		Change	Dated
F.01.01.01 to F.01.01.06	Withdrawn	Superseded by 74009	May 1974
F.01.01.07	Withdrawn	Superseded by 74012.	July 1974
F.01.01.08	Amend. B	Replaced by reprint.	Mar. 1981
	Amend. C	Pages 1/2 replaced by reprints to refer to the limited use of the Item, with the issue of 93019.	Dec. 1993
F.01.01.09	Amend. B	Replaced by reprint.	Mar. 1981
	Amend. C	Replaced by reprint to account for issue of 95021	Dec. 1995
F.01.01.10	Withdrawn	Superseded by 74009.	May 1974
F.02.01.01 to F.02.01.05	Withdrawn	Superseded by 74010	July 1974
F.02.01.06	–	Replaced by reprint.	Aug. 1971
	Amend. A	Pages 1 and 2 replaced by reprints. The amendment (page 1) advises the user that the Item, although superseded by 87005, has been retained temporarily because of its use in the worked examples of a number of Items.	May 1987
F.02.01.07	Amend. A	Replaced by reprint.	Feb. 1973
	Amend. B	Page 2 replaced by reprint.	July 1974
	Amend. C	Replaced by reprint to correct curve for $\lambda = 0$ in Figure 1.	Feb. 1993
F.02.01.08	Amend. C	Complete reprint. Cross-references to high-lift device Items added.	May 1999
F.02.01.09	Withdrawn	Incorporated into F.02.01.08.	May 1981
F.05.01.01	Amend. A	Replaced by reprint.	Dec. 1973
F.08.01.01	Amend. C	Replaced by reprint.	Oct. 1981
	Amend. D	Complete reprint for consistency with 03017	Nov. 2003
F.08.01.02	Amend. B	Replaced by reprint.	Dec. 1974
	Amend. C	Complete reprint for consistency with 03017	Nov. 2003
S.00.01.10	Amend. A.	Replaced by reprint.	Oct. 1971
S.00.02.03	Withdrawn	Superseded by 73017.	Aug. 1973
S.00.03.06	Amend. C	Replaced by reprint	Jan. 1978
S.00.03.07	Issue 2	Replaced by reprint.	May 1970
	Amend. A	Pages 1 to 4 replaced by reprints to incorporate reference to 81004.	Mar. 1981

Item		Change	Dated
S.00.03.08	Amend. A	Replaced by reprint.	May 1982
S.00.03.09	Amend. A	Replaced by reprint incorporating S.00.03.10 and S.00.03.11.	June 1982.
S.00.03.12	Withdrawn	Superseded by 70008	July 1970
S.00.03.13	Amend. B	Replaced by reprint	May 1975
S.00.03.14	Amend. A	Replaced by reprint	Jan. 1980
	Amend. B	Pages 1/2 replaced by reprints. Amendment to Eqn (2.2), page 1, to remove minus sign from right-hand side.	Mar. 1995
S.00.03.15	Amend. A	Replaced by reprint	Dec. 1973
	Amend. B	Pages 3 and 4 replaced by reprint.	Dec. 1977
S.00.03.16	Amend. B	Replaced by reprint	Mar. 1975
S.00.03.17	Withdrawn	Superseded by 69009.	Oct. 1969
S.00.03.18	–	Renumbered W.S.00.13.18.	Oct. 1969
S.00.03.19	Withdrawn	Superseded by 69010 and 69011.	June 1969
S.00.03.20	Withdrawn	Superseded by 69012.	Oct. 1969
S.00.03.22	Amend. A	Replaced by reprint.	June 1982
S.00.03.23	Amend. A	Replaced by reprint.	June 1982
S.00.03.25	Withdrawn	Superseded by 81004.	Mar. 1981
S.00.03.27	Amend. A	Replaced by reprint	Nov. 1979
W.00.01.01	Withdrawn	Superseded by 76003.	Jan. 1976
W.00.01.02	Withdrawn	Superseded by 70015.	Sep. 1970
W.00.03.01	Amend. A	Replaced by reprint.	June 1982
	Amend. B	Pages 1 and 2 replaced by reprints which delete reference to 00.03.00.	Jan. 1994
W.00.03.02	Withdrawn		Dec. 1965
W.01.01.01	Amend. D	Replaced by reprint	Oct. 1989
W.01.01.04	Amend. A	Replaced by reprint	May 1974
W.01.01.05	Amend. B	Replaced by reprint.	Mar. 1978
	Amend. C	Pages 1 and 2 replaced by reprints to give equations for Figures 1 to 3.	Dec. 1995
	Amend. D	Pages 1 and 2 replaced by reprints to refer to 97020	Dec. 1997
W.01.01.06	Withdrawn	Superseded by 84026.	Nov. 1984
W.01.01.07	Amend. B	Replaced by reprint.	Sep. 1985
W.01.03.01	Withdrawn		July 1970

Item		Change	Dated
W.02.01.02	Withdrawn	Superseded by 74035.	Oct. 1974
W.02.04.00	Amend. A	Replaced by reprint.	July 1973
	Amend. B	Replaced by reprint to include reference to Data Items for excrescence drag.	Jan. 1994
W.02.04.01	Amend. B	Replaced by reprint	Sep. 1981
W.02.04.02	Issue 2	Replaced by reprint. Page 2, red label added. This amendment is incorporated in subsequent reprints.	July 1947 Aug. 1964
W.02.04.03	Amend. A	Replaced by reprint.	May 1978
W.02.04.08	Withdrawn	Superseded by 73016.	July 1973
W.02.04.09	Amend. B	Replaced by reprint.	Sep. 1981
W.02.04.10	Withdrawn	Superseded by 73016.	July 1973
W.02.04.11	Amend. B	Replaced by reprint.	Dec. 1974
W.05.01.01	Amend. A	Replaced by reprint.	Mar. 1981
W.08.01.01	Withdrawn	Superseded by 70011	July 1970
W.08.03.01	Withdrawn	Superseded by 87001.	Mar. 1987
W.S.00.03.03	Amend. A	Replaced by reprint.	Oct. 1982
W.S.00.03.04	Amend. A	Replaced by reprint.	Jan. 1980
	Amend. B	Pages 1/2 replaced by reprints. Amendments to Eqn (2.2), page 2, to insert square power on denominator bracket.	Mar. 1995
W.S.00.03.05	Amend. A	Replaced by reprint.	Oct. 1982
W.S.00.03.18	Amend. B	Replaced by reprint.	Jan. 1981
W.S.01.03.03 to W.S.01.03.06	Withdrawn	Superseded by 70011 and 70012.	Sep. 1970
W.S.02.03.01	Withdrawn	Superseded by 75004.	May 1975
W.S.02.03.02	Amend. B	Replaced by reprint.	Oct. 1982
W.S.02.03.05	Withdrawn		Aug. 1964
W.S.02.03.07	Issue 2	Replaced by reprint.	Sep. 1965
W.S.02.03.09	Issue 2	Replaced by reprint.	June 1965
W.S.02.03.10	Amend. A	Replaced by reprint.	Oct. 1982
W.S.02.04.12	Amend. A	Replaced by reprint.	May 1983
W.S.02.04.13	Amend. A	Replaced by reprint.	May 1983



Item		Change	Dated
W.S.05.03.01	Amend. A	Replaced by reprint.	May 1981
	Amend. B	Pages 1 to 4 replaced by reprints which correct reference to W.S.02.03.10.	Jan. 1994
W.S.08.01.02	Withdrawn	Superseded by 70011, 70012.	Sep. 1970
W.S.08.03.02	Amend. B	Replaced by reprint.	Mar. 1982
66028	Amend. A	Pages 1 to 4 reprinted to incorporate reference to 81004.	Mar. 1981
66029	Withdrawn	Superseded by 86002.	Apr. 1986
66031	Amend. B	Replaced by reprint incorporating Amendments A and B. Amendment B (pages 3, 5, 6 and 7) concerns the fact that 66033 has been superseded by 88030.	Feb. 1989
	Amend. C	Pages 1/2, 5/6 and 7 replaced by reprints to introduce cross reference to 95025.	Dec. 1995
66032	Amend. B	Replaced by reprint.	Feb. 1978
	Amend. C	Pages 1 and 2 replaced by reprints to correct the omission of the power 2 on $C_L$ in the third line of the NOTES on page 2.	Mar. 1987
	Amend. D	Pages 1 to 4 replaced by reprint to introduce cross reference to 95025.	Dec. 1995
	Amend. E	Reissued to reflect revision of 96025	Nov. 2002
66033	Withdrawn	Superseded by 88030.	Nov. 1988
67011	Amend. A	Pages 1 and 2 replaced. Page 5, footnote label added. Page 8, footnote label added. Pages 35 to 37 added.	Oct. 1973
67035	Amend. A	Pages 9 and 10 reprinted to incorporate reference to 81004.	Mar. 1981
67039	Withdrawn	Superseded by 86021.	Oct. 1986
67040	Withdrawn	Superseded by 77008.	May 1977
68019	Amend. A	Page 8, red label added. Page 9, first line, and page 10 five lines from bottom, for "Data Sheet S.00.03.12" read "Item No. 70010".	Oct. 1970
	Amend. B	Page 8, label covering sketch and previous red label.	July 1973
68020	Amend. A	Page 9, red label added. Page 9, eighth line and page 11 four lines from end of Example, for "Data Sheet S.00.03.12" read "Item No. 70010".	Oct. 1970
	Amend. B	Page 9, label covering sketch and previous red label.	July 1973
	Amend. C	Pages 7 to 12 replaced by reprints to give (page 8) full details of Derivation 5 and to incorporate the handwritten amendments (A) on pages 9 and 11 and the label (B) on page 9.	Mar. 1988

Item		Change	Dated
68021	Amend. A	Pages 1 and 2 replaced by reprint to incorporate references to 80021 on page 2.	Oct. 1980
	Amend. B	Pages 1 and 2 replaced by reprints. This amendment (to page 1) arises from the issue of 82028.	Sep. 1984
	Amend. C.	Reprinted with Amends A to C. The Item has been updated and brought into line with its companion (82028).	Mar. 1992
68022	Withdrawn	Superseded by 91042.	Dec. 1991
68035	Withdrawn	Superseded by 77009.	May 1977
69010	Amend. A	Page, 1, footnote, for “1” read “2”.	Oct. 1970
	Amend. B	Page 6, sentence beginning “Using Sutherland’s formula”, read “From Item No. 73017 with $T_1 = 288 \text{ K}, \dots$ ”. Footnote deleted.	July 1973
69012	Amend. A	Page 4, red label added. Line 7, for “Data Sheet S.00.03.12”, read “Item No. 70010”.	Oct. 1970
	Amend. B	Page 4, label covering sketch and previous red label.	July 1973
70006	Withdrawn	Superseded by 82010 and 82017	July 1982
70011	Amend. C	Replaced by reprint to extend application to wings with $\beta A$ up to 12.	July 1977
	Amend. D	Pages 1 to 4 replaced by reprints to refer (pages 2 and 3) to the treatment of tailplanes.	Dec. 1989
	Amend. E	Pages 1 to 4 and 15 to 20 replaced by reprints. The amendments mainly refer (page 3) to the limited applicability to predict the lift-curve slope of wing-body configurations (page 17) and the more general use of Item No. 91007 (page 19).	July 1991
	Amend. F	Pages 1 to 4 and 15 to 20 replaced by reprints. Pages 21 to 34 added. The amendments relate (pages 1, 2 and 4) to the replacement of $x$ by $x_0$ and to the introduction of Appendices B and C concerning, respectively, the Helmbold-Diederich equation and A7011 issued on diskette.	July 1992
	Amend. G	Pages 1 to 4 and 25 to 34 replaced by reprints to incorporate minor changes to the text and ETpac (A7011) to maximise compatibility with the companion ETpac (A7012) for supersonic flow.	Dec. 1993
	Amend. H	Pages 25 and 26 replaced by reprints to introduce VIEWpac 7011A.	Dec. 1995
	Amend. I	Pages 29 to 34 amended following correction of ETpac A7011. Whole Item reprinted and reissued.	Aug. 1996

Item		Change	Dated
70012	Amend. A	Replaced by reprint to extend application to wings with $\beta A$ up to 12. Also includes accuracy assessment.	Nov. 1979.
	Amend. B	Pages 1 to 6 replaced by reprints. The amendment (pages 1, 2 and 5) replaces $x$ by $x_0$ .	July 1992
	Amend. C	Reprinted to incorporate minor changes to some of the Figures and to include Appendix A describing a computer program for the method (ETpac A7012).	Sep. 1993
	Amend. D	Pages 15 and 16 replaced by reprints to introduce VIEWpac 7012A.	Dec. 1995
70013	Withdrawn	Superseded by 80025.	Dec. 1980
70014	Amend. A	Page 6 replaced. Page 16, top two Figures labelled "a", middle one "b", bottom two "c". Page 21, Figure 10, bottom right-hand box read "Determine $\frac{C_{ps}}{C_p} \dots$ ".	Jan. 1971.
70015	Amend. A	Page 11 replaced by reprint. Page 17 replaced by reprint.	Jan. 1971
	Amend. B	Page 6, label covering last line. This amendment has been incorporated in subsequent reprints.	Oct. 1972
71016	Amend. A	Page 38, first line, for " $a/b > 1\frac{1}{2}$ " read " $a/b < 1\frac{1}{2}$ "; under Face C second line, for " $C_{pE}$ " read " $C_{pc}$ ".	Oct. 1973
	Amend. B	Page 18, label covering Reference 46. Page 34 replaced by reprint.	July 1973
	Amend. C	Page 2, units of $\mu$ should read " $\dagger \text{N s/m}^2$ or $** \text{pdl s/ft}^2$ or $\text{lbf s/ft}^2$ ". Pages 9, 10, 17, 18 replaced (updated method for rounded edges). New pages 28a and 28b inserted with note across page 28 that Figs 17 and 18 are superseded by those on pages 28a and 28b respectively. Page 40, delete labels 0.1 and 0.2 immediately below top left-hand sketch. Page 41, amend instruction c(vii) to read " $r/b > 0.01$ . See section 4.7 for correction factor".	Nov. 1978
71020	Amend. A	Page 9, label covering References 2 to 4. This amendment has been incorporated in subsequent reprints.	Oct. 1973
72021	Amend. A	Page 4, Section 3.4, label added.	July 1974
	Amend. B	Pages 5 and 6 replaced by reprint to incorporate reference to 82017 (superseding 70006). (Reprinted June 1986.)	June 1986
72024	Amend. A	Pages 5, 8, 10 and 15 replaced by reprints.	Apr. 1973
	Amend. B	Pages 13 and 14 replaced to correct errors in Table III.	Oct. 1976
	Amend. C	Pages 1 to 6, 15 and 16 replaced by reprints to incorporate reference to Addendum A containing a method for estimating $\alpha_{oi}$ and $C_{moi}$ outside ranges of Figures 2 and 3. Addendum A (pages 23 to 26) added.	

Item		Change	Dated
	Amend. D	Reprinted with Amend. D, includes cross-reference to 97020 and 98011 in Section 3.	Jan. 1999
72026	Withdrawn	Superseded by 82026 and 83045.	Oct. 1984
73006	Amend. A	Pages 1 to 4 replaced by reprints to incorporate reference to reprint of A.06.01.09 and issue of 80033.	Dec. 1980
	Amend. B	Pages 1 to 4 replaced by reprints to incorporate reference to Addendum A on nacelle effect. Addendum A (pages 13 to 15) added. Amends. A and B incorporated in subsequent reprints.	Mar. 1981
	Amend. C	Replaced by reprint with new method in Addendum.	Mar. 1999
73017	Amend. A	Page 4, Derivation 1, for “Item No. Aero. A.00.03.05” read “Item No. Aero 00.03.05”.	July 1975
	Amend. B	Pages 1 to 4 replaced by reprints.	Dec. 1977
73028	Withdrawn	Superseded by 75031.	Nob. 1975
74008	Amend. A	Page 3, label covering Derivation 4.	May 1975
74009	Amend. A	Amendment of page 1 to refer to 97009	Mar. 1997
74010	Amend. A	Page 1, Section 2, second paragraph, penultimate line, for “Aero W.02.01.02” read “Item No. 74035”, Page 3 last line of Section 2, for “F.00.01.00” read “75013” (Reprinted with Amend. A, Oct. 1983).	Nov. 1974
74011	Amend. A	Amendment of page 1 to refer to 97011.	Mar. 1997
74012	Amend. A	Pages 3 and 4 replaced by reprints. This amendment concerns the updating of References 25 and 26 on page 4.	Feb. 1985
	Amend. B	Pages 1/2 replaced by reprints to refer to 93019 for part-span factors for slotted flaps.	Dec. 1993
	Amend. C	Complete reprint. Cross-references to high-lift device Items added.	Apr. 1999
74030	Amend. A	Page 5, line 1, read “...the ratio $N/N(N_0\delta_i)$ ...” Page 10, Equation (17), for “ $dt$ ” read “ $d\tau$ ”. Incorporated in subsequent reprints. (Reprinted 1983).	Oct. 1976
74031	Withdrawn	Superseded by 85020.	Nov. 1985
74035	Amend. A	Replaced with reprint to reflect issue of ETpac. Pages 1 to 3 and 7 to 11 retypeset as Amend. A	Apr. 1996
74036	Amend. A	Pages 1 and 2 replaced by reprints to incorporate reference to 75031 (superseded 73028).	Apr. 1986
	Amend. B	Pages 1 and 2 replaced by reprints to amend the notation in Eqn (2) to agree with that in 75031.	June 1987

Item		Change	Dated
75001	Withdrawn	Superseded by 86010.	Mar. 1987
75005	Amend. A	Pages 13 and 14 replaced by reprints.	Nov. 1976
75011	Withdrawn	Superseded by 82007, 81027 and 81028 giving mean fluid forces on structural members, plane frames and spatial lattice frames respectively; in the Wind Engineering Sub-series.	Apr. 1982
75013	Withdrawn	Superseded by 97002 and 97003.	Apr. 1997
75031	Amend. A	Pages 5, 6, 9, 10, 19, and 20 replaced with reprints to amend the authorship of Derivation 6 (page 6), the Derivation numbers in Table I (page 9) and the ordinate lettering in Figure 6 (page 19).	June 1987
76001	Withdrawn	Superseded by 87035 (plus 88019 and 88036 in the Wind Engineering Sub-series).	Apr. 1989
76003	Amend. A	Pages 1 and 2 replaced by reprints to incorporate reference to Addendum A on the concept of the equivalent wing. Addendum A (pages 17 to 24) added.	Oct. 1981
76015	Amend. A	Pages 1 to 4 replaced by reprints. The more important part of this amendment provides a cross-reference to Addendum A in 76003 for a detailed treatment of the equivalent wing concept.	Oct. 1981
	Amend. B	Replaced by reprint. Figure 1 is modified.	Oct. 1996
76026	Amend. A	Pages 1 and 2 replaced by reprint. Addendum A (pages 17 to 19) added. Page 1, red label at top. Page 3, red label at head of Section 2. Page 11, red label at head of Section 9.	May 1977
76028		Pages 3/4 and 5/6 replaced by reprints. Makes reference to an extra term in Equation (8).	Dec. 1995
76033	Amend. A	Page 2, para. 1, read "... (see Item No. 77020)."	Dec. 1977
	Amend. B	Replaced by reprint to incorporate modification of text involving cross-references, correction to Equation (1) and revised Figures 1 and 2.	Dec. 1996
77008	Withdrawn	Superseded by 83037 in Internal Flow Sub-series	Nov. 1983
77020	Amend. A	Replaced by reprint incorporating additional cross-references	Dec. 1996
77021	Amend. A	Pages 1, 2, 15 and 16 replaced by reprints to incorporate a minor change to $\rho_0$ on page 2 and a correction to the heading of Table III on page 15.	June 1986
*	Amend. B	SI constant in model for $k$ in Table in Appendix corrected in electronic version. Full reprint with minor text changes in relation to altitude scales.	Mar. 2005

Item		Change	Dated
77028	Amend. A	Pages 1 to 6, 25 and 26 replaced by reprints. Pages 6a, 27 and 28 added.	May 1978
	Amend. B	Reprinted to incorporate data for additional geometry parameters and to cover a wider range of body shapes, including the effect of spherical blunting.	Apr. 1984
	Amend. C	Pages 1 to 4 replaced by reprints to refer (page 3) to Appendix A. Appendix A (pp. 61-69) contains equations that can be used to generate data for the geometric coefficients presented in the Item in graphical form.	May 1985
	Amend. D	Pages 63 to 66 replaced by reprints to incorporate amendment to Equation (A6.3) on page 63 and to correct notation of the spherical cap in Equations (A8.1) to (A8.4) on page 66.	Nov. 1985
	Amend. E	Pages 17, 18, 61, 62 and 66 replaced by reprints. The amendments concern a correction (page 17) to the equation for $D_c/D$ for the cone in Table V and the addition of values of $C_P$ , $C_C$ , and $C_V$ for the cone (pages 62 and 65) as a special case of the Power Law family of bodies.	
	Amend. F	Pages 13, 14, 17 and 18 replaced by reprints. The amendments concern (page 14) corrections to the equation for $r/R$ on the spherical blunting for Bodies 10 to 12 and (page 17) corrections to the equations for $l/D$ and $D_c/D$ for spherically blunted secant ogive.	July 1990
77032	Amend. A	Replacement of temporary version issued in December 1977.	Mar. 1978
	Amend. B	Pages 1 to 4, 25, 26, 33, 34, 37, 38, 47 to 50 and 55 to 58 replaced by reprints. The amendments are editorial except that to page 33 which replaces $\mu_j$ with $\mu_k$ in the second integral of Eqn (39) and that to page 38 which replaces $\omega/\omega_d = 1$ $w/w_n = \sqrt{1-2\zeta^2}$ in the second line beneath Sketch (xviii).	Dec. 1985
78006	Withdrawn	Superseded by 85038, 85039, 85040. (Note: 85038 and 85040 are in Wind Engineering Sub-series).	Oct. 1986
78008	Amend. A	Pages 5 and 6 replaced by reprints to correct error in Table II	June 1979
	Amend. B	Pages 5 and 6 replaced by reprints to correct the value for $H$ corresponding to $H_p = 4000$ m for the Arctic minimum in Table I and $p/p_0$ corresponding to $H_p = 29\,000$ ft in Table II	Aug. 1987
	Amend. C	Pages 5 and 6 replaced by reprints to correct error in Table I	Aug. 1992
78019	Amend. A	Pages 1, 2, 7 to 14 replaced by reprints.  These amendments concern minor changes to the notation (pages 1, 2 and 7) minor changes (pages 8 to 11), resulting from Amend. B to 77028 and a correction to the labelling on Figure 3 (page 14).	Sep. 1984

Item		Change	Dated
	Amend. B	Main text reprinted and Addendum A issued	July 1998
78037	Amend. A	Pages 1 to 6 replaced by reprints. These minor amendments (to pages 1, 3 and 6) result from Amend. B to 77028.	Sep. 1984
78041	Amend. A	Pages 9 and 10 replaced by reprints to correct transposition error at top of page 9.	June 1979
	Amend. B	Pages 1, 2, 5 to 10, 23 to 28 replaced with reprints incorporating minor changes to base drag resulting from issue of 79022.	Nov. 1979
	Amend. C	Pages 9 and 10 replaced by reprints to reinstate Amendment A omitted on issue of Amendment B.	Mar. 1980
	Amend. D	Pages 7 and 8 replaced by reprints to correct the top figure on the ordinate scale in Sketch (iii) on page 8.	Dec. 1987
	Amend. E	Pages 17/18 replaced by reprint to amend Figure 8a. Corrects $C_{Db}$ at $d_b/dm = 1$ .	Dec. 1995
	Amend. F	Replaced by reprint incorporating additional cross-references	Dec. 1996
79006	Amend. A	Pages 1, 2, 5 and 6 replaced by reprints to incorporate references to Addendum A on nacelle effects. Addendum A (pages 15 to 18) added.	Mar. 1981
	Amend. B	Replaced by reprint with new method in Addendum.	Mar. 1999
79015	Amend. A	Replaced by reprint incorporating modifications to the strut factors $R_1$ and $R_2$ based on simplified data from 80025 and 84015.	Sep. 1985
	Amend. B	Pages 7 to 10, 19 and 20 replaced by reprints. The amendments (pages 8 and 9) relate to the transposition of Derivations 10 and 11 and (page 19) to an incorrect report number.	Mar. 1987
79020	Amend. A	Pages 1 to 4, 7 and 8 replaced by reprints. These minor amendments (to pages 1, 3 and 7) result from Amend. B to 77028.	Sep. 1984
79022	Amend. A	Pages 5 and 6 replaced by reprints. The amendment concerns the fact that B.S. 02.03.04 is now incorporated in B.S.02.03.02.	Dec. 1987
	Amend. B	Replaced by reprint incorporating additional cross-references	Dec. 1996
79025	Amend. A	Pages 1, 2, 21 to 24 and 37 to 42 replaced by reprints and new pages 38a to 38d introduced. The main object of the amendment is to extend the tabular presentation in Section 5.1 of the Sources of Data.	Feb. 1981
	Amend. B	Pages 1, 2, 21 to 24 and 38a to 38d replaced by reprints. Pages 38e to 38o added.	July 1991
	Amend. C	Pages 1/2, 21/22, 38o and 41/42 replaced by reprints. Pages 38p to 38x added.	Dec. 1994

Item		Change	Dated
79026	Amend. A	Pages 19 and 20 replaced by reprint to incorporate amendment to abscissa scale of Figure 4.	Mar. 1980
80003	Amend. A	Pages 1 to 4, 7, 8, 11 and 12 replaced by reprints incorporating a correction to Eqn (3.2) on page 3 and corrections of references to superseded Items (72026 and 74031) on pages 4, 8 and 11.	May 1986
80006	Amend. A	Replaced by reprint incorporating amendments relating to effect of rear fuselage cross-sectional shape via $k$ in Figure 3.	Nov. 1985
	Amend. B	Pages 3 and 4 replaced by reprints to correct the range for $R_l$ in the Table on page 4.	Feb. 1988
80020	Amend. A	Pages 21 and 22 replaced by reprints to correct the ordinate labelling on Figure 8.	Oct. 1981
80021	Amend. A	Replaced by reprint incorporating revisions and extensions to data.	Nov. 1983
	Amend. B	Pages 5, 6, 9 and 10 replaced by reprints. The amendment relates to modifications to the carpet on page 10 to give an improved representation of the test data.	Apr. 1989
80025	Amend. A	Pages 21, 22 and 31, 32 replaced by reprints. The extrapolated parts of the curves on Figure 1c are shown.	July 1981
	Amend. B	Pages 51 and 52 replaced by reprints to note a limitation on the use of $C_{D0}$ for $Re_e > 3 \times 10^7$ .	Sep. 1981
	Amend. C	Pages 17, 18, 21 and 22 replaced by reprints incorporating correction of Eqn (7.4) on page 17 and the updating of Reference 4 on page 22.	June 1986
80033	Amend. A	Pages 3 to 8 replaced by reprints. The amendment is mainly concerned with a better assessment of the accuracy for wings of aspect ratio 6 to 12 and a revised treatment of wings with small forward sweep.	Oct. 1981
81013	Amend. A	Replaced by reprint incorporating amendments to provide compatibility with 82010 and to correct the estimation procedure for the effect of flap deflection on lift and drag coefficients for other than split flaps.	June 1982
81017	Amend. A	Pages 49 and 50 replaced by reprints to amend the upper limit in $H/D$ quoted in the line prior to Eqn (B5.1)	May 1987
81023	Amend. A	Pages 1/2, 3/4, 17/18, 19 to 27 replaced by reprints. Pages 28 to 36 added. Amendment concerns revision of Appendix A associated with ETpac A8123.	Aug. 1994
81024	Amend. A	Pages (i), 1/2, 5/6, 17/18, 23 to 28, 31 to 34, 37/38 replaced by reprints. Pages 41 to 58 added. The amendment concerns the issue of a program (A8124) for the method.	Dec. 1994



Item		Change	Dated
81032	Amend. A	Replaced by reprint incorporating amendments to provide compatibility with 82010.	May 1982
	Amend. B	Replaced by reprint. The amendment concerns a discussion of fin-induced tailplane loading, in Sections 2 and 5.9, together with a minor correction to Section 3.3 concerning a reference to the calculation of the fin contribution to $L_v$ .	Mar. 1985
	Amend. C	Replaced by reprint to contain modified nacelle method from Item No. 73006.	Mar. 1999
	Amend. D	Replaced by reprint to reflect issue of 00025. Flap contribution corrected.	Oct. 2000
81034	Amend. A	Pages 1, 7, 19 and 20 replaced by reprints. This amendment is mainly concerned with the correction of the value of $Q'_{11}$ for $\nu = 0.05$ in Table 6 and the associated corrections in Tables A1, A3, A5 and A7.	Sep. 1982
	Amend. B	Reprinted with Amend. B, includes correction in Table A5.16.	Jan. 1999
82005	Amend. A	Replaced by reprint. This amendment is mainly concerned with the correction of the pitching moment and control hinge-moment coefficients in Tables 1 to 12 and the associated corrections to the Example. The data had been incorrectly transcribed from the original computer output.	Sep. 1982
82010	Amend. A	Page 6 replaced by reprint to clarify the reference to 82011.	Sep. 1982
	Amend. B	Pages 19 and 20 replaced by reprint to correct a sign error on page 20.	Mar. 1987
	Amend. C	Pages 5/6 and 13 to 16 replaced by reprints to refer to 93007.	Apr. 1993
82011	Amend. A	Replaced by reprint to contain modified nacelle method from 79006.	Mar. 1999
	Amend. B	Replaced by reprint to reflect issue of 00025.	Oct. 2000
82017	Amend. A	Replaced by reprint incorporating a minor amendment to the method and the inclusion of comparisons between predicted and experimental data.	
82018	Amend. A	Replaced by reprint. In line with electronic version.	Sep. 2001
82020	Amend. A	Replaced by reprint. In line with electronic version.	Sep. 2001
82026	Amend. A	Pages 4, 14, 24, 26, 37, 39 and 47 replaced by reprints.	Dec. 1982
	Amend. B	Pages 5, 9, 18, 19, 20, 24, 26, 30, 31 and 47 replaced by reprints. Amends A and B incorporated in subsequent reprints.	Aug. 1984
	Amend. C	Pages 19, 22, 27 and 28 replaced by reprints.	Mar. 1990
	Amend. D	Pages (i)/(ii), 5/6, 19 to 22 and 25 to 28 replaced by reprints to refer to program (ETpac A9232) for method.	Apr. 1993
	Amend. E	Complete reprint/revision; reference to VIEWpac E0108.	Mar. 2002

Item		Change	Dated
82034	Amend. A	Pages 17 to 20, 25, 26, 29 and 30 replaced by reprints. The amendments to pages 17, 20 and 26 rectify minor misprints and that to page 30 inserts the omitted quantity $F_2$ on the ordinate axis of Figure 5.	Sep. 1984
83006	Amend. A	Pages 3, 4, 7, 8, 13 to 18 replaced by reprints. This amendment concerns a correction to the ordinate scales in Sketch 2.1 (page 4), corrections of minor typographical errors on pages 8 and 14 and, at the foot of page 16, a correction to the description of the calculations for the intermediate and fully swept wings, with corresponding amendments to Sketches 6.2b and 6.2c on page 18.	Mar. 1985
83006	Amend. A	Pages 3, 4, 7, 8, 13 to 18 replaced by reprints. This amendment concerns a correction to the ordinate scales in Sketch 2.1 (page 4), corrections of minor typographical errors on pages 8 and 14 and, at the foot of page 16, a correction to the description of the calculations for the intermediate and fully swept wings, with corresponding amendments to Sketches 6.2b and 6.2c on page 18.	Mar. 1985
83010	Amend. A	Replaced by reprint incorporating Amendment A which relates largely to issue of ETpac A8310.	Aug. 1992
83039	Withdrawn	Superseded by 89014.	Aug. 1989
83040	Amend. A	Replaced by reprint incorporating amendments extending the method to apply to wings with camber as well as twist.	Nov. 1984
	Amend. B	Pages 1 and 2, 9 to 14, 19, 20, 23 to 26, 33 and 34 replaced by reprints. The amendment relates to corrections to one or two values for $K_B$ and $\bar{C}_{LTB}$ in Tables 3 to 5 and the resultant minor changes to Example 3 and to the incorporation of a method (in Appendix A) of coping with any number of linear twist segments.	Mar. 1988
83045	Amend. A	Pages 5 and 6 replaced by reprints.	Aug. 1984
	Amend. B	Pages 3 to 6 and 15/16 replaced by reprints to refer to program (ETpac A9232) for method.	Apr. 1993
	Amend. C	Complete reprint/revision; reference to VIEWpac E0108.	Nov. 2002
84014	Withdrawn	Superseded by 87033	Dec. 1987
84026	Amend. A	Replaced by reprint to incorporate changes in notation for consistency with associated Items.	Sep. 1991
	Amend. B	Reprinted (i) to place a greater emphasis on the estimation of $\Delta C_{L0}$ (ii) to incorporate minor amendments in the examples, and (iii) to refer to the issue of a program for the method in ETpac A9315.	Aug. 1993
	Amend. C	Reprinted with Amend. C, includes cross-reference to 72024, 97020 and 98011 in Section 5.	Jan. 1999

Item		Change	Dated
84035	Amend. A	Pages 5 to 10 and 15 to 18 replaced by reprints. The amendment corrects a misprint (page 5), provides improved values of $m$ for stub wings with $h/\delta \leq 1$ for $M = 0$ to 0.8 and $M = 2.8$ (replacing $M = 3$ ) (pages 8, 16, 18) and refers to a recently published journal article containing the data of Derivations 1 and 2 (page 10).	Mar. 1988
85015	Amend. A	Replaced by reprint incorporating minor notational changes and other changes, mainly to thrust definitions, to ensure consistency with 85017.	Apr. 1986
85020	Amend. E	Replaced by reprint incorporating Amendments A to D together with some minor changes to the method.	Nov. 1990
	Amend. F	Pages 3/4 and 13/14 replaced by reprints to refer to program (ETpac A9232) for method.	Apr. 1993
	Amend. G	Complete reprint. In line with electronic version	Aug 2001
85025	Withdrawn	Superseded by 89014.	Aug. 1989
85033	Withdrawn	Superseded by 94026 to 94031	Dec. 1996
85039	Withdrawn	Superseded by 96030 and 96031 (Wind Engineering Series)	Apr. 1997
86002	Amend. A	Pages 37/38 and 59/60 replaced by reprints to correct minor typographical errors on page 37 and the ordinate label in Figure 17.	June 1993
	Amend. B	Pages 21/22 replaced by reprint to add $\eta$ to ordinate axis on Sketch 6.2.	Aug. 1996
	Amend. C	Complete reprint to reflect issue of 03006. In line with electronic version.	June 2003
	Amend. D	Revision of choking condition. Equations (5.14) and (6.17) and worked examples – amended.	June 2004
86009	Withdrawn	Superseded by 89014.	Aug. 1989
86010	Amend. A	Pages 9, 10, 15 and 16 replaced by reprints. The amendment (pages 9, 15 and 16) concern minor editorial changes to Table 5.1, the addition of further explanatory material to Section 7.1.2 and the renumbering of Equations (7.16) and (7.17).	May 1988
	Amend. B	Pages 9 and 10 replaced by reprints. The amendment (page 9) concerns a correction to the $v$ component of the $g$ -function $2r_{Li}$ in Table 5.1.	Dec. 1988
	Amend. C	Pages 9 and 10 replaced reprints. The amendment (page 9) concerns the references in Table 5.1 to equations for the $g$ -function $2r_{Li}$	Mar. 1990
	Amend. D	Pages 9 and 10 replaced by reprints. The amendment (page 9) concerns an editorial change to the expressions following Equation (5.8).	Sep. 1991

Item		Change	Dated
	Amend. E	Complete reprint. In line with electronic version.	Aug. 2001
86021	Amend. A	Replaced by reprint. The amendments relate mainly to an improved treatment of static stability.	Nov. 1986
	Amend. B	Pages 11, 12, 21 and 22 replaced by reprints to correct errors in Eqns. (3.13) and (4.63) to (4.65).	Mar. 1987
	Amend. C	Complete reprint to incorporate minor changes based on user comments. In line with electronic version.	July 2003
87001	Amend. A	Replaced by reprint. The amendment relates to some minor editorial changes in the Notation, the use of 87031 for $\alpha_0$ instead of 72024, changes to the analysis for some of the test data in which “linear twist” was subsequently found to be “linear-lofted twist” and the introduction in Appendix A of a FORTRAN program listing for the method of the Item.	Mar. 1988
	Amend. B	Pages 1 to 4 and 23 to 31 replaced by reprints up to page 30. Amendments relate mainly to issue of A8701 on diskette (listing removed from Item).	July 1991
87005	Amend. A	Pages 1 and 2 replaced by reprint referring (page 2) to the introduction in Appendix A of a FORTRAN program listing for the method of the Item	Mar. 1988
	Amend. B	Pages 1, 2 and 11 to 16 replaced by reprints up to page 12. Amendments relate mainly to issue of A8705 on diskette (listing removed from Item).	July 1991
	Amend. C	Complete reprint. Cross-references to high-lift device Items added.	Mar. 1999
87008	Amend. A	Pages 29 and 30 replaced by reprints. The amendment (page 29) corrects the $c_R/c_F$ scales of Figures 4b and 4c to read from 0.10 to 0.45 instead of 0.05 to 0.40.	June 1988
	Amend. B	Pages 1, 2 and 7 to 10 replaced by reprints. The amendment relates firstly (page 7) to the introduction in Appendix A of a FOTRAN program and secondly (page 9) to a minor correction to a parameter in Section 3.3.	Nov. 1988
	Amend. C	Pages 35 and 36 replaced by reprints. The amendment (page 35) relates to the correction of “Figure” to “Sketch” 1.2a, b in Table A1.	Sep. 1990
	Amend. D	Reprinted incorporating amendments A to D. Amendment D relates to changes to the program listing in Appendix A. The only important change corrects the subroutine implementing the use of 70011 (pages 49, 50).	July 1991
	Amend. E	Pages, 1, 2, 7 and 8 and 33 to 55 replaced by reprints up to page 39. Amendments mainly relate to issue of A8708 on diskette (listing removed from Item).	Oct. 1992

Item		Change	Dated
	Amend. F	Pages 23 and 24 reprinted to correct (page 23) notation for $h_{FR}$ .	Jan. 1993
	Amend. G	Pages 3/4, 7/8, 19/20 and 23/24 reprinted. Amendment concerns clarification of ruder deflection angle definition and introduction of expressions for derivatives with respect to rudder angle measured in plane normal to hinge line.	Jan. 1994
87024	Amend. A	Pages 1 to 4, 7, 8, 11 and 12 replaced by reprints acknowledging (pages 2, 4, 7 and 12) that 88030 has superseded 66033.	Feb. 1989
	Amend. B	Pages 1, 2, 5, 6 and 11 to 13 replaced by reprints up to page 12. Amendments mainly relate to issue of A8724 on diskette (listing removed from Item).	July 1991
	Amend. C	Complete reprint.	Mar. 2000
87032	Withdrawn	Superseded by 88003.	Sep. 1989
87031	Amend. A	Reprinted with Amend. A, includes cross-reference to 98011 in Section 3.1.	Jan. 1999
87033	Amend. A	Replaced by reprint resulting from issue of 89014.	Aug. 1989
	Amend. B	Pages 1, 2, 5 and 6 replaced by reprints to refer (pages 2 and 6) to a FORTRAN listing in 90034.	Dec. 1990
	Amend. C	Pages 3, 4, 11 and 12 replaced by reprints. The amendments concern a correction to the cross-references to 89008 and 89014 (pages 3, 4) together with other editorial changes to improve the clarity of Figures 1 and 2.	July 1982
87035	Amend. A	Replaced by reprint. Item incorporated into Aerodynamics Series in April 1989.	Mar. 1989
*	Amend. B	Full reprint for corrections to text and agreement with electronic version.	Dec. 1998
88003	Amend. A	Replaced by reprint to incorporate 87032.	Aug. 1989
	Amend. B	Pages 3, 4 and 9 to 12 replaced by reprints. The amendments concern minor editorial changes (page 3) and changes to the abscissa scale lettering to aid extrapolation of Figures 1(a) (page 10) and 2(a) (page 11) to higher values of $s_h/s_f$ and the replacement of the handwritten ordinate scale on Figure 2(b) (page 11).	May 1990
	Amend. C	Page 9/10 replaced by reprint to correct labelling of Figure 1.	Aug. 1996
	Amend. D	Page 9/10 replaced by reprint to correct reference to Figures 1b, 2b.	Mar. 1997
88013	Amend. A	Pages 3 and 4 replaced by reprints referring (page 3) to a FORTRAN listing for the method in Appendix A of 88029.	Nov. 1989
	Amend. B	Pages 3 and 4 replaced by reprints referring (page 3) to a program for the method in 88040 (ETpac A8840).	Oct. 1992

Item		Change	Dated
88029	Amend. A	Pages 1 to 4 replaced by reprints referring (pages 1 and 3) to the introduction in Appendix A of a FORTRAN listing for the method of the Item.	Nov. 1989
	Amend. B	Pages 1 to 4 and 17 to 41 replaced by reprints up to page 4. The amendment relates to a program for the method in 88040 (ETpac A8840). The listing has been removed from the Item.	Oct. 1992
88030	Amend. A	Pages (i), 17/18, 23 to 34, 37 to 40 and 43 replaced with reprints mainly to correct section data given for the Example and to incorporate the resulting numerical corrections, to correct label on abscissa on Figure 3 and insert label on Figure 6 and to simplify Step 9(i) of Appendix.	Jan. 1994
88031	Amend. A	Pages 21 to 26 amended to correct small numerical error in worked example.	Mar. 1997
88040	Amend. A	Complete reprint. ETpac corrected.	Apr. 1999
89008	Amend. A	Pages 3, 4, 9, 10, 21 and 22 replaced by reprints relating to the issue of 89014 (pages 3, 4 and 9) and editorial changes to pages 21 and 22.	Aug. 1989
	Amend. B	Pages 3 and 4 replaced by reprints to incorporate Amendment A to page 3, omitted in error in issue of August 1989.	Mar. 1990
	Amend. C	Pages 3 to 6, 9 10, 13 and 14 replaced by reprints referring (pages 3 and 9) to FORTRAN listing in 90034, amending (page 6) the reference to the Figure for $G$ and inserting the abscissa variable on Figure 1.	Dec. 1990
89014	Amend. A	Pages 1, 2, 7, 8, 11, 12, 15 and 16 replaced by reprints. The amendment relates (pages 2 and 15) to a FORTRAN listing in 90034, a correction (page 8) to the $M_\infty$ range for Figure 1c, a correction (page 11) to the exponent sign in Eqn (8.4) and the correction (page 16) to the calculated variables for $\alpha = 5^\circ$ in Table 10.1.	Dec. 1990
	Amend. B	Pages 15 to 20 replaced by reprints. The amendments concern a correction (page 16) to the value of $C_{Nc}$ for $\alpha = 10^\circ$ in Table 10.1 and minor changes (pages 18 and 20) to Figures 1a to 1c.	July 1992
	Amend. C	Pages 9 and 10 replaced by reprints to correct (page 10) a spelling error in (1).	Jan. 1993
	Amend. D	Complete reprint to reflect A9034V40 changes and bring into line with electronic version of Item.	Sept. 2004
89034	Amend. A	Reprinted (i) to change the notation to correspond to that in 84026, (ii) to correct the wing section data given for the Example and to incorporate the resulting numerical corrections, (iii) to incorporate minor modifications to Figure 3 and (iv) to refer to the program for the method, in ETpac A9315.	Aug. 1993

Item		Change	Dated
89047	Amend. A	Pages 3, 4, 7, 8, 11 and 12 replaced by reprints. The amendment (pages 3, 7, 11) concerns a reference to 90020 for $\alpha_e$ .	Oct. 1990
	Amend. B	Pages (i) and 1 to 4 replaced by reprints. Appendix A (pages 23 to 24) added, relating to A8947 issued on diskette.	July 1991
90005	Amend. A	Pages 1 to 4 replaced by reprints. The amendment relates (pages 1, 3 and 4) to the introduction in Appendix A of a FORTRAN program.	Oct. 1990
	Amend. B	Pages 1 to 4 and 17 to 39 replaced by reprints up to page 27. Amendments relate mainly to Issue of A9005 on disk (listing removed from Item).	July 1991
90010	Amend. A	Pages 19, 20 and 35 to 42 replaced by reprints. The amendment mainly concerns a revised construction of the carpet in Figure 2 (page 41) to avoid impractical geometries and to correct a small numerical error. In consequence, there are minor numerical corrections to Example 2 (pages 36, 37 and 39). Finally, there is a correction to a Derivation on page 20.	Nov. 1990
90013	Amend. A	Pages 1 to 8 and 16 reprinted to replace $(x_{cp}/c_r)_{\alpha \rightarrow 0}$ with $x_{ac}/c_r$ .	Jan. 1993
	Amend. B	Pages 1 to 6 replaced by reprints to include cross-references to 93034 and 95022.	Dec. 1995
90020	Amend. A	Pages (i), 1, 2, 5 to 22 and 31 to 38 replaced by reprints and pages 39 to 71 (Appendices B and C) added. The amendment relates mainly to issue of A9020 (covered in Appendix C) and Appendix B dealing with fuselage and nacelle effective angles of attack. The amendment also relates to the need for $ \eta_W $ in the wing method and an error in the value of $z_F$ given in Sketch 6.2(a).	Dec. 1992
90029	Amend. A	Pages 11 and 12 replaced by reprints to provide (page 11) an improved treatment for fuselages in Section 3.3.3(b).	Feb. 1993
90030	Amend. A	Reprinted to maintain consistency with 92002.	Jan. 1992
	Amend. B	Reprinted to maintain consistency with 96026.	Nov. 1999
90034	Amend. A	Replaced by reprint. Amendments relate mainly to issue of A9034 on diskette (listing removed from Item).	July 1991
	Amend. B	Revised and extended version of program to include spherically-blunted secant ogive forebodies.	Sept. 1995
	Amend. C	Treatment of modelling of low incidence data improved in program A9034 Version 4.0.	Sept. 2004
91007	Amend. A	Pages 3 and 4 replaced by reprints. The amendment (page 3) corrects > to read < in the expression involving $\tan \Lambda_0$ following Equation (3.4) and < to read > for the same expression following Equation (3.5).	July 1992

Item		Change	Dated
	Amend. B	Pages 1, 2, 5 and 6 reprinted to cross-refer (pages 2 and 5) to 91042.	Jan. 1993
	Amend. C	Reprinted to include extension of the application to include all-moving controls and forward swept wings.	May 1993
	Amend. D	Pages 1 to 10 and 17/18 replaced by reprints. Corrects final expression on page 3 and the equation for $(C_L)_C$ on page 8. Adds cross-reference to 95009.	Dec. 1995
91009	Amend. A	Complete reprint. The amendments relate to the change of subscript $TF$ to $T2F$ following issue of 93007.	Apr. 1993
91014	Amend. A	Complete reprint (due to withdrawal of 85033).	Dec. 1995
91031	Amend. A	Pages 1 to 6 and 19 to 30 replaced by reprints. The amendments mainly concern two aspects; the revision of Figure 1 and consequent changes to the example and textual revisions to refer to, and ensure consistency with, 92029. Other changes are minor.	Nov. 1992
	Amend. B	Pages 1/2, 7/8, 23/24 and 29 to 34 replaced by reprints, pages 37 to 39 added. The amendments relate to the issue of 93007. Minor changes to notation definitions; Figure 1 extended to $w_{BF}/h_{BF} = 4$ ; Figures 2a, 2c and 2f added; Figure 2g minor amendments.	Apr. 1994
91042	Amend. A	Pages 1, 2, 5 and 6 reprinted to cross-reference (pages 2 and 6) to 92043.	Jan. 1993
92002	Amend. A	Reprinted to maintain consistency with 96026.	Nov. 1999
92007	Amend. A	Complete reprint. The amendments relate to change of subscript $TF$ to $T2F$ following issue of 93007.	Apr. 1993
92024	Amend. A	Reprinted to include modified notation arising from issue of 92043 and cross-reference to that Item.	Jan. 1993
	Amend. B	Pages 3/4, 5/6, 13/14 and 15/16 replaced by reprints. Corrects second form of Equation (3.4) and Equations (A2) and (A3).	Dec. 1995
92029	Amend. A	Complete reprint. The amendments relate to issue of 93007. The notation is simplified; reference is made to 93007; the Figure numbering is changed; the final part (iv) of Example 2 is changed, Example 3 added; Figures 1 and 2 are extended to $w_{BV}/h_{BV} = 4$ ; Figure 3a is revised and extended; Figures 4a, 4d and 4f added.	Apr. 1993
	Amend. B	Pages 37/38 and 45 replaced by reprints incorporating minor corrections to small areas of the carpets.	Oct. 1993
92031	Amend. A	Complete reprint (due to withdrawal of 85033).	Dec. 1995



Item		Change	Dated
93015	Amend. A	Pages 1/2 and 9 to 27 replaced by reprints to make an essential reference to the README file and to modify the output header in the Examples to accord with the new program version. program (A9315) modified for use in UNIX.	Jan. 1994
93019	Amend. A	Complete reprint (due to withdrawal of 85033).	Dec. 1995
93034	Amend. A	Complete reprint. The amendment mainly concerns additional data for $\lambda = 0.25$ and the extension to post stall angles of attack for delta and rectangular wings.	Aug. 1994
	Amend. B	Pages 1/2 and 5/6 replaced by reprints to introduce cross-reference to 95022.	Dec. 1995
94038	Amend. A	Pages 3/4 replaced by reprint. A checking routine in the program has been corrected.	Apr. 1997
95010	Amend. A	Pages 1/2 and 23/24 replaced by reprints to reflect modified ETpac output.	Aug. 1996
	Amend. B	Pages 17/18, 23/24 replaced by reprints to reflect modified ETpac output.	Jan. 1997
	Amend. C	Complete reprint. New Appendix. ETpac B9510 added.	Mar. 1999
95025	Amend. A	Pages 3/4 and 5/6 replaced by reprints to reflect issue of 96025.	Dec. 1997
	Amend. B	Pages 17/18 and 23/24 replaced by reprints to reflect modified ETpac output following correction.	Jan. 1997
96003	Amend. A	Pages 3/4 and 17/18 replaced by reprints to correct a cross-reference.	Mar. 1997
	Amend. B	Pages 3/4, 11/12, 19/20 and 21/22 replaced by reprints to correct minor typographical errors.	Sep. 1997
	Amend. C	Reprinted with Amend. C, includes cross-reference to 72024, 97020 and 98011 in Section 3.	Jan. 1999
	Amend. D	Reprinted with Sketch 4.2 added.	May 2002
	Amend. E	Amended to ensure consistency of notation throughout series of flap lift and pitching moment Items.	Nov. 2003
96025	Amend. A	Complete reprint. Input file values of $t/c$ corrected.	July 1999
	Amend. B	Complete reprint. Method amended to improve boundary layer lift-dependent drag and vortex lift.	Sep. 2002
	Amend. C	Complete reprint. Method amended to improve camber treatment.	Nov. 2004
*	Amend. D	Complete reprint. Numerical routines improved for camber treatment. Calculation of $\alpha_{corr}$ corrected. Camber-line slope at leading edge redefined further aft.	Jan. 2005
96026	Amend. A	Reprinted to maintain consistency with 90030 and 92002.	Nov. 1999

Item		Change	Dated
96027	Amend. A	Pages 9/10 replaced by reprint to correct a cross-reference.	Mar. 1997
97002	Amend. A	Complete reprint to reference issue of Items on effect of high-lift device deployment on pitching moment and Item on trailing vortex drag (01007) with part-span flap deployment.	Nov. 2003
	Amend. B	Amplification of comments on 01007	Mar. 2004
97009	Amend. A	Amended to ensure consistency of notation throughout series of flap lift and pitching moment Items.	Nov. 2003
98009	Amend. A	Complete reprint for consistency with 03017	Nov. 2003
97011	Amend. A	Amended to ensure consistency of notation throughout series of flap lift and pitching moment Items.	Nov. 2003
98017	Amend. A	Complete reprint for consistency with 03017	Nov. 2003
99004	Amend. A	Reprinted to maintain consistency with 99014.	Mar. 2000
	Amend. B	Complete reprint for consistency with 03017	Nov. 2003
* 99010	Amend. A	Small change to carpets on pages 29 and 58.	June 2005
99014	Amend. A	Complete reprint for consistency with 03017, use of subscript $B$ on $C_{L0B}$ .	Nov. 2003
00006	Amend. A	Complete reprint.	Feb. 2002
00007	Amend. A	Complete reprint.	Feb. 2002
00029	Amend. A	Complete reprint for consistency with 03017, use of subscript $B$ on $C_{L0B}$ .	Nov. 2003
01013	Amend. A	Complete reprint for consistency with 03017, use of subscript $B$ on $C_{L0B}$ .	Nov. 2003
* 02008	Amend. A	Pages corrected for small typographical errors and to add references to later Items. (Pages 1, 2, 4, 5, 6, 18, 31, 34, 35, 37, 49, 54, 61, 68, 71, 78, 83 and 84).	Mar. 2005
* 02012	Amend. A	Page 9 corrected for delta missing in ordinate scale.	July 2005
* 04007	Amend. A	Complete reprint with additional empirical analysis for square bodies.	Sep. 2005