391.—E. P. Adams & R. L. Hippisley, Smithsonian Mathematical Formulae and Tables of Elliptic Functions, second and third reprints, The Smithsonian Institution, Washington, D. C., 1947 and 1957.

On p. 25, in Formula 1.86 the second term of the right member should read $A_1\{f(b)+f(a)\}$, with $A_1=+\frac{1}{2}$ rather than $-\frac{1}{2}$ as in the fourth line from the bottom of the page.

On p. 26, in Formula 1.861 the second term of the right member should read $+\frac{1}{2}\{f(b) + f(a)\}\$ instead of $-\frac{1}{2}\{f(b) - f(a)\}.$

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EDITORIAL NOTE: For previous notices of errors in this book, see Math. Comp., v. 16, 1962, p. 126, MTE 307, and MTAC, v. 12, 1958, p. 262, MTE 265, where further references are given.

392.—I. M. Ryshik & I. S. Gradstein, Summen-, Produkt- und Integral-Tafeln: Tables of Series, Products, and Integrals, VEB Deutscher Verlag der Wissenschaften, Berlin, 1957.

On p. 146, in formula 3.214 1, the integral diverges. This error appears also in the 1963 edition.

The value of this integral has also appeared erroneously in a number of earlier collections published within the past one hundred years, as, for example, those of Bierens de Haan [1], Silberstein [2], and Dwight [3].

In his elaborate examination of Bierens de Haan's tables, Lindman [4], on the other hand, noted the divergence of this integral.

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1. D. Bierens de Haan, Nouvelles Tables d'Intégrales Définies, Leyden, 1867 (reprinted by Stechert, New York, 1939), Table 26, formula 7. (See MTAC, v. 1, 1943–1945, pp. 321–322, RMT

2. L. Silberstein, Synopsis of Applicable Mathematics, with Tables, Bell, London, 1923. (First published in 1922 as Bell's Mathematical Tables.)

3. H. B. Dwight, Tables of Integrals and other Mathematical Data, Macmillan, New York, 1934. (See MTAC, v. 1, 1943–1945, pp. 190–191, RMT 154; ibid., pp. 195–196, MTE 32.) The integral under discussion has been omitted in the later editions.

4. C. F. LINDMAN, Examen des Nouvelles Tables d'Intégrales Définies de M. Bierens de Haan, K. Svenska Vetenskaps Akad., *Handlingar*, v. 24, no. 5, Stockholm, 1891. (Reprinted by Stechert, 1944, and reviewed in *MTAC*, v. 1, 1943–1945, pp. 321–322, RMT 167.)

EDITORIAL NOTE: For additional errata in Ryshik & Gradstein, see Math. Comp., v. 14, 1960, pp. 401-403, MTE **293**; v. 17, 1963, p. 102, MTE **326.** It seems appropriate to note here the convergent integral

$$\int_0^\infty (1 - e^{(-1/x^2)}) \ dx = \sqrt{\pi},$$

which may not have been published before.

393.—MILTON ABRAMOWITZ & IRENE A. STEGUN, Editors, Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables, National Bureau of Standards, Applied Mathematics Series, No. 55, U. S. Government Printing Office, Washington, D.C., 1964.

In the table under 6.1.34, on p. 256, the value of c_k for k=23 has been incorrectly transcribed from the cited table of H. T. Davis: for 206, read 207.

On p. 329, line 10, replace $\sqrt{2n-\frac{1}{4}}$ by $\sqrt{n-\frac{1}{8}}$. Also, while the reference to Table 7.10 on lines 12–13 is correct, the asymptotic formula on lines 10–11 appears only in T. Laible, "Höhenkarte des Fehler integrals," Z. Angew. Math. Phys., v. 2, 1951, pp. 484–486.

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On p. 302, in formula 7.4.10, the upper limit of the integral on the right-hand side should read $x\sqrt{a}$ instead of ax.

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Third printing March 1965:

All the entries in Table 9.7, on p. 415, have been recalculated to sufficient accuracy to yield respective cross products that differ by less than 10⁻¹⁴. The zeros were subsequently rounded to 10D. In this computation a Bessel function subroutine was used that yields values correct to 16D.

Comparison of these more extended approximations with those constituting Table 9.7 revealed that the following corrections are necessary in the latter.

	sth zero of	$J_0(x)Y_0(\lambda x) - Y_0(x)J_0(x)$	$\lambda x)$
λ^{-1}	8	for	read
0.8	1	$12.55847 \ 028$	12.55847 031
0.6	1	4.69706 410	4.69706409
0.4	1	2.07322886	2.07322885
0.2	2	1.55710	1.55711
0.2	3	2.34641	2.34642
0.08	4	1.08531	1.08536
	sth zero of	$J_1(x)Y_1(\lambda x) - Y_1(x)J_1(x)$	(λx)

λ^{-1}	8	for	read
0.8	1	$12.59004 \ 148$	$12.59004\ 151$
0.8	5	62.83662	62.83663
0.6	1	4.75805 426	4.75805 425
0.4	1	2.15647 249	2.15647 248
0.2	2	1.61108	1.61107
0.1	3	1.07483	1.07484
0.08	4	1.11437	1.11441
0.08	5	1.38435	1.38440

sth zero of $J_1(x)Y_0(\lambda x) - Y_1(x)J_0(\lambda x)$

λ^{-1}	8	for	read
0.8	1	$6.56973\ 323$	$6.56973\ 310$
0.6	1	$2.60328\ 237$	2.60328 138
0.1	5	1.59489	1.59490
0.08	5	1.25198	1.25203

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Fifth printing December 1965:

On p. 562, at the end of Eq. 15.4.25, for

$$P_{a+b-1}^{b-a}[-x(1+x)^{-1/2}],$$

read

$$P_{a+b-1}^{b-a}[-x^{1/2}(1+x)^{-1/2}].$$

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EDITORIAL NOTE: Other errata in this *Handbook* have been previously announced in *Math. Comp.*, v. 19, p. 174, MTE **362**; pp. 360-361, MTE **365**; p. 527, MTE **373**; p. 705, MTE **376**; v. 20, p. 202, MTE **379**; p. 344, MTE **388**.

394.—J. W. Sheldon, B. Zondek & M. Friedman, "On the time-step to be used for the computation of orbits by numerical integration," *MTAC*, v. 11, 1957, pp. 181–189.

On p. 181, in formula (1) the coefficient of the tenth backward difference, $\nabla^{10}X_n{}^i$, should read

 $\frac{13,695,779,093}{237,758,976,000}$

instead of

 $\frac{301,307,139,941}{5,230,697,472,000}$

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Editorial Note: These coefficients can be identified with the numbers $(-1)^{n-1}(n-1) \cdot B_n^{(n)}(1)/n!$, where $B_n^{(n)}(1)$ denotes the value of the *n*th Bernoulli polynomial of the *n*th order when x = 1. For a table of the exact values of $B_n^{(n)}(1)/n!$, n = 1(1)20, see A. N. Lowan & H.

Salzer, "Table of coefficients in numerical integration formulae," J. Math. Phys., v. 22, 1943, pp. 49-50.

395.—J. W. GLOVER, Tables of Applied Mathematics in Finance, Insurance, and Statistics, Wahr Publishing Co., Ann Arbor, Mich., 1951.

On p. 492 of this reprint of the 1930 edition of these tables, the following terminal-digit corrections are required in the 10D table of mathematical constants.

Entry	for	read
$(2\pi)^{-1/2}$	3	4
$r = \rho \sqrt{2}$	0	2
$\log r$	3	4

Also, immediately below \sqrt{e} , for $1/\sqrt{\cdot}$, read $1/\sqrt{e}$.

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EDITORIAL NOTE: For additional corrections see *MTAC*, v. 5, 1951, p. 228, MTE **194** and the FMRC *Index*, v. 2, p. 822.

396.—G. W. Spenceley, R. M. Spenceley & E. R. Epperson, Smithsonian Logarithmic Tables to Base e and Base 10, The Smithsonian Institution, Washington, D.C., 1952.

The following corrections supplement those previously reported (*MTAC*, v. 10, 1956, p. 261, MTE **251**; *ibid.*, v. 11, 1957, p. 226, MTE **256**; *Math. Comp.*, v. 14, 1960, p. 308, MTE **283**; *ibid.*, v. 15, 1961, p. 113, MTE **297**; *ibid.*, v. 17, 1963, p. 103, MTE **327**; *ibid.*, v. 19, 1965, p. 362, MTE **370**).

Page	Entry	For	Read
14	$\ln 670$	$\dots 74368 807$	$\dots 74368 806$
34	$\ln 1682$	$\dots 36378\ 377$	$\dots 36378 378$
39	$\ln1925$	$\dots 59836 882$	59836 881
40	$\ln1975$	$\dots 24337 447$	$\dots 24337 446$
47	$\ln 2312$	$\dots 82268\dots$	$\dots 92268\dots$
91	$\ln 4534$	$\dots 67444\dots$	$\dots 67474\dots$
100	$\ln 4993$	00009	$\dots 00609\dots$
109	$\ln 5442$	$\dots 43190\dots$	$\dots 43191\dots$
129	$\ln 6441$	$\dots 76890\dots$	$\dots 46890\dots$
135	$\ln 6748$	$\dots 65859\dots$	$\dots 65858\dots$
172	$\ln8570$	$\dots 91425\dots$	$\dots 91825\dots$
17 8	$\ln8862$	$\dots 59436\dots$	$\dots 59434\dots$
190	$\ln 9480$	$\dots 49068\dots$	$\dots 49067\dots$
322	$\log 5992$	$\dots 01410\dots$	$\dots 91410\dots$

On p. 124, in the value given for ln 6196 the digit 6 in the sequence 36759 is so imperfectly formed as to be almost certainly misread as a zero.

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