Mag., v. 33, 1885, p. 517). More information about log log slide rules is contained in Baxandall's *Catalogue of the Collections in the Science Museum, South Kensington . . . Mathematics I. Calculating Machines and Instruments*, London, His Majesty's Stationery Office, 1926, p. 56–58.

R. C. A.

13. TABLES OF $N^{3/2}$ (Q **5**, p. 131; QR **8**, p. 204, **11**, p. 336).—A further contribution to the bibliography of these tables is *American Civil Engineers' Handbook*, ed. by T. MERRIMAN and T. H. WIGGIN, fifth ed., New York, Wiley, 1930, p. 1312–1314. This table is for N = [.01(.01).1(.1)10(.5)20; 4S].

In *MTAC*, p. 336 a reference was given to T. 38 in King's *Handbook of Hydraulics*, third ed. 1939, p. 103–112. In this same work, p. 117–121, is T. 40 "Discharge in cubic feet per second per foot of length over sharp-crested wiers, without velocity of approach correction by the Francis formula $Q = 3.33H^{3/2}$," for H = [.0(.001)1.5(.01)6.99; 5S], the values Q of T. 40 being 3.33 times corresponding values in T. 38. A slide rule giving the values of the Francis' wier formula, $Q = 3.33H^{3/2}\ (B - .2H)$ is illustrated in J. N. ARNOLD, *Special Slide Rules*, Purdue Univ., Lafayette, Indiana, *Engineering Bulletin*, v. 17, no. 5, 1933, p. 14–15. In this formula Q is, in cu. ft./sec., the water discharge, with head of water H, of a rectangular notch wier of breadth B ft. Furthermore, the values of $N^{3/2}$, to a certain accuracy, could be read off at once from log log slide rules discussed in QR **12**.

R. C. A.

CORRIGENDA ET ADDENDA

P. 211, l. 20, *omit* of the first kind.

P. 215, l. 17, end of line, *for* (p = 2, 4, 6), *read* (p = 4, 6, 8).

P. 217, $\mathbf{C}_2$ 6, *add* , p = 1(1)18.

P. 220, last l., *for* δ^2, *read* $\delta_m{}^2$. P. 225, l. 12, *for* $w_{-n}(-x)$, *read* $w_n(-x)$.

P. 231, l. −11, *for* odd integer, *read* odd-integer.

P. 234, **D8A**, l. 5, *for* a_α, *read* a_2

P. 240, l. −3, in two places, *for* $x^{\frac{1}{2}}$, *read* x^2; l. −5, *for* 10, *read* 8; l. −7, before the integral, *add*: $2x^{n-m+1}e^{-x^2}p^{m-n+1}$.

P. 252, l. 23–24, substitute the following sentence: The terms $\text{her}_n x$, $\text{hei}_n x$ are given in Watson's *Bessel Functions*, p. 81 and are used in Dwight 3_1; $\text{yer}_n x$, $\text{yei}_n x$ were added by J. C. P. MILLER in the Liverpool *Index*.

P. 256, **E2**, l. 1, *for* $(X/V)^{\frac{1}{2}}$, *read* $\frac{1}{2}x(X/V)^{\frac{1}{2}}$.

P. 257, after entry **E14**, *add* For improved forms of θ and ϕ given in nos. 1–14 we are indebted to the Liverpool *Index*.

P. 271, for l. 12 *read* The asymptotic forms of the ber, bei, ker, kei, functions and their derivatives are given in the natural form by Dwight 1_3 and 3_1. A modified form quoted by Watson is

P. 272, l. 2, *read* $u = \frac{1}{4}\pi(2r - 1 + 4s)$.

P. 285, l. 32, *for* OSAKA and, *read* OKAYA &.

P. 287, l. 10, *for* DINNIK 15, *read* DINNIK 14.

P. 292, l. 12, *for* $\mathcal{J}$ *read* J.

P. 295, l. 19, *for* 1/3, Prescott, *read* 1/3; Prescott.

P. 300, NYMTP 8, l. 1–3, *delete* $K_0(x) = E_0(x)\ .\ .\ .\ x = 0(.001).03$; and.

P. 330, l. 11, *for* m = 20, *read* n = 20.

P. 333, l. 16, and 17, editorial slips for which the author was not responsible: *for* 0(0°.001)3°, *read* 0°.01(0°.01)2°.99, and *for* 0°.001, *read* 0°.01.