TABLE ERRATA


In Section 9.5, p. 141, formula

(7) instead of $2(2a)^{1/2}$ read $(2a)^{1/2}$.

In Section 9.6, p. 141, two lines before formula (1),

instead of $a$ read $|a|$.

In formula

(1) instead of $y^\alpha(a) + O(|a|^{-1})$ read $y^\alpha(a) + O(|a|^{-1/2})$

(2) instead of $1 + \tau(-a\pi/2)^{1/2}$ read $(1 + \tau)((1 - a)\pi/2)^{1/2}$

instead of $|a|^{-1}$ read $|a|^{-2}$.

Insert after formula (2)

provided that $a$ is not too close to a negative integer.

In the line after formula (2),

instead of positive read real.

Replace formula (3) by

(3) Erfi($y$) = $\frac{1}{2}\pi^{1/2}$ ctn($|a|\pi$).

In the line after formula (3),

instead of $0.278463 \ldots$ read $0.278464 \ldots$.

In Section 9.9, pp. 147–148, formula

(4) instead of $1 - 2\pi^{-1/2}$ Erf $x$ read $1 - 2\pi^{-1/2}$ Erfc $x$

(20) instead of $\sum_{n=0}^\infty$ read $\sum_{n=1}$

The corrections in Sections 9.5 and 9.6 became apparent when reconsidering the proofs in F. G. Tricomi (Math. Z., v. 53, 1950, pp. 136–148), from which the original formulae had been taken, and in F. G. Tricomi, Funzioni ipergeometriche confluenti, Edizioni Cremonese, Roma, 1954. It should be noted that the formulae corresponding to (1), (2) and (3) above, namely (1) and (2) on p. 187, and (7) on p. 190 of this book are also erroneous. In fact, $\alpha$ should be replaced by $1 - \alpha$ in these relations. Further, there exists a third version of these formulae in F. G. Tricomi, “Fonctions hypergéométriques confluentes,” Mémor. Sci. Math., v. 140, 1960, where the expressions corresponding to (1) and (2) above, namely (2) and (3) on p. 63, are also incorrect.

K. S. Kölblig

CERN
Geneva, Switzerland