

sine and cosine integrals, real and complex error functions, parabolic cylinder functions, ordinary and modified Bessel functions, and the orthogonal polynomials mentioned above.

There are two short appendices. The first (2 pages) contains formulas for the binomial coefficients and the Pochhammer symbol, and the second (21 pages) contains formulas for some of the special functions; in particular, formulas for the  $m$ th derivative (with respect to the argument  $z$ ) of products of certain elementary functions (powers and exponentials) with orthogonal polynomials having  $z$ , or elementary functions (reciprocal, square root) of  $z$ , as arguments. Two dictionaries of notation complete the work. There is a list of 37 references, but no direct references are given in any formulas. This is a disadvantage if one wants to know how a formula may be derived or if one suspects an error. Also, some important references are not included in the list.

The printing and binding are very satisfactory. This table is certainly one of the most important reference books for mathematicians, physicists, engineers, and others working in fields where such formulas are likely to occur. Especially in view of its reasonable price, this table, and its companion volume on elementary functions [1], ought to be available in the library of every institute. Unfortunately, the number of copies printed (22 thousand, 70 thousand for [1]) is rather small, and the table is difficult to obtain (almost impossible for [1]). There are reports that an English translation is in preparation.

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1. A. P. PRUDNIKOV, YU. A. BRYČKOV & O. I. MARIČEV, *Integrals and Series of Elementary Functions* (Russian), "Nauka", Moscow, 1981.
2. Y. L. LUKE, Review of [1], *Math. Comp.*, v. 40, 1983, pp. 413–414.

**3[65L15, 65M00, 65N00, 65P05, 76-02, 76-04].**—MAURIZIO PANDOLFI & RENZO PIVA (Editors), *Proceedings of the Fifth GAMM-Conference on Numerical Methods in Fluid Mechanics*, Rome, October 5–7, 1983, Friedr. Vieweg & Sohn, Braunschweig/Wiesbaden, 1984, viii + 390 pp., 23 cm. Price \$32.00.

This volume contains the 48 contributed papers presented at the conference in the title. In addition, there are four short reports on GAMM workshops held at various places from 1980 to 1982.

W.G.