

At the time of the computation, cumulative decimal-digit counts for $D = 10^3(10^3)10^5$ were tabulated, and nothing unexpected was observed. The final counts for $e - 2$ and $\pi - 3$ are as follows.

	0	1	2	3	4
e	9885	10264	9855	10035	10039
π	9999	10137	9908	10025	9971
	5	6	7	8	9
e	10034	10183	9875	9967	9863
π	10026	10029	10025	9978	9902

AUTHORS' SUMMARY

1. DANIEL SHANKS & JOHN W. WRENCH, JR., "Calculation of π to 100,000 decimals," *Math. Comp.*, v. 16, 1962, pp. 76-99.

47[7].—FREDERIC B. FULLER, *Tables for Continuously Iterating the Exponential and Logarithm*, ms. of 30 typewritten pages, 29 cm. Deposited in UMT file.

The theory of the continuous iteration of real functions of a real variable has been presented by a number of writers, including Bennett [1], Ward [2], and the present author [3].

The unique tables under review give 6D values of the continuously iterated function $F(x)$ and its inverse $G(x)$ for $x = 0(0.001)1$, with first differences, and for $x = 1(0.1)3$, without differences. Here $F(x)$ represents the exponential of zero iterated x times. Typical values for integral values of x are $F(0) = 0$, $F(1) = 1$, $F(2) = e$, and $F(3) = e^e$.

An introduction of five pages provides details of the procedures followed in the calculation of these tables. Appended notes explain how the tables can be extended in both directions with respect to the argument and include a discussion of the effect of the F operator on the number system of algebra.

It seems appropriate to mention here a similar study of Zavrotsky [4], which, however, led to radically different tables.

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1. A. A. BENNETT, "Note on an operation of the third grade," *Ann. of Math.*, v. 17, 1915-1916, pp. 74-75.

2. MORGAN WARD, "Note on the iteration of functions of one variable," *Bull. Amer. Math. Soc.*, v. 40, 1934, pp. 688-690.

3. MORGAN WARD & F. B. FULLER, "The continuous iteration of real functions," *Bull. Amer. Math. Soc.*, v. 42, 1936, pp. 393-396.

4. A. ZAVROTSKY, "Construccion de una escala continua de las operaciones aritmeticas," *Revista Ciencia e Ingenieria de la Facultad de Ingenieria de la Universidad de los Andes*, Mérida, Venezuela, December 1960, No. 7, pp. 38-53. (See *Math. Comp.*, v. 15, 1961, pp. 299-300, RMT 63.)

48[8].—JOHN R. WOLBERG, *Prediction Analysis*, D. Van Nostrand Co., Princeton, N. J., 1967, xi + 291 pp., 24 cm. Price \$10.75.