

The DEUCE (successor to ACE) has a 250,000 bit magnetic drum, 32 bit word size, mercury delay line high speed store, and two milliseconds multiply time.

D. D. WALL

IBM Corporation  
Los Angeles, California

### TABLE ERRATA

The following errata are mentioned in this issue:

CARL-ERIK FRÖBERG, *Hexadecimal Conversion Tables*, Review 82, p. 208.

H. NAGLER, *Table of Square Roots of Integers*, Review 77, p. 205.

T. PEARCEY, *Table of the Fresnel Integral to Six Decimal Places*, Review 87, p. 210-211.

J. RYBNER, *Nomogrammer over komplekse hyperbolski funktioner*, Review 80, p. 207.

G. N. WATSON, *A Treatise on the Theory of Bessel Functions* [I. M. Longman paper, p. 179].

256.—GEORGE WELLINGTON SPENCELEY, RHEBA MURRAY SPENCELEY, & EUGENE RHODES EPPERSON, *Smithsonian Logarithmic Tables to Base e and Base 10*, The Smithsonian Institution, Washington, D. C., 1952. [Review 992, *MTAC*, v. 6, 1952, p. 150-151.]

On p. 241 for  $\log 1902 = 3,27921\ 05129\ 01395\ 12706$   
read  $\log 1902 = 3,27921\ 05126\ 01395\ 12706$ .

J. RAFALOWICZ  
B. JAKUBOWSKI

Dept. of Physics  
Technical Institute of Wroclawska  
Wroclawska, Poland

### NOTES

#### Handbook of Mathematical Tables

#### National Bureau of Standards

The National Science Foundation has commissioned the National Bureau of Standards Applied Mathematics Division to prepare a Handbook of Mathematical Tables containing formulas and graphs. This project is an outgrowth of a conference on Mathematical Tables held at Massachusetts Institute of Technology on September 15 and 16, 1954. One of the principal recommendations made at this conference was that "an outstanding need is for a 'Computer's Handbook,' with usually encountered functions, together with a discussion of their analytic properties and a set of formulas and tables for interpolation and other techniques useful to the occasional computer."

Subsequently Dr. P. A. Smith, Chairman of the Mathematics Department of the National Research Council, appointed a committee composed of A. Erdélyi, M. C. Gray, N. C. Metropolis, P. M. Morse (Chairman), R. D. Richtmeyer, J. B. Rosser, H. C. Thacher, Jr., John Todd, C. B. Tompkins, and J. W. Tukey to advise the NBS staff and help establish a philosophy for the Handbook. After several meetings the following points were established:

1. The proposed preliminary table of contents is that there shall be a general introductory section explaining the use of the tables and the following chapters:

1. Powers, Roots and Related Functions; 2. Binomial Coefficients, Bernoulli Numbers; 3. Fundamental Constants; 4. Circular and Hyperbolic Functions, Logarithms; 5. Sine, Cosine, Exponential and Logarithmic Integrals; 6. Gamma and Related Functions; 7. Error Function, Fresnel Integral; 8. Legendre Functions; 9. Bessel Functions including: a) Integral Order, b) Spherical, Modified Spherical, Fractional Order, c) Complex Argument, d) Integrals, e) Struve Functions; 10. Elliptic Functions and Integrals; 11. Mathieu Functions, Spheroidal Wave Functions; 12. Parabolic Cylinder Functions; 13. Hypergeometric Functions; 14. Confluent Hypergeometric Functions; 15. Miscellaneous Functions; 16. Orthogonal Polynomials; 17. Statistical Tables; 18. Interpolation Coefficients—Quadrature; 19. Radix Conversion Tables; 20. Combinatorial Tables.

2. The tables are not to be given to a uniform number of decimal places or significant figures. The elementary functions are to be given to a high order of accuracy because they have basic importance and are essential for the evaluation of higher mathematical functions with the aid of auxiliary functions.

3. The tables will be linearly interpolable to 5D or 5S, as far as possible, although more figures may be given.

4. Polynomial and rational approximations for the various functions are to be given as interpolation and computing aids.

5. Graphs are to be given to demonstrate the behavior of the function or as means of tabulation in the case of some of the higher transcendental functions.

6. Auxiliary functions and arguments will be used extensively to simplify interpolation and permit tabulation over the entire range of the argument.

7. Radix and "Key values" tables to high order of accuracy will be given.

8. In each of the chapters there will be given the most useful mathematical relations pertinent to the functions, indefinite and definite integrals, infinite series, inequalities, and references supplementing the tables.

Part of the computations have already been completed and it is hoped that the volume will be completed in about fifteen months. Dr. M. Abramowitz, of the Applied Mathematics Division of the Bureau of Standards, is in charge of the preparation of the Tables. Queries and suggestions should be addressed to him.

PHILIP M. MORSE

Massachusetts Institute of Technology  
Cambridge, Massachusetts

### **International Congress of Mathematicians**

**August 14–21, 1958**

The International Congress of Mathematicians will meet in Edinburgh, Scotland from August 14th to August 21st, 1958. The Executive Committee is inviting a number of mathematicians to deliver one-hour and half-hour addresses.

There will also be daily sessions devoted to fifteen-minute communications. There will be eight sections, namely:

1. Logic and Foundations
2. Algebra and Theory of Numbers
3. Analysis
4. Topology
5. Geometry
6. Probability and Statistics
7. Applied Mathematics, Mathematical Physics, and Numerical Analysis
8. History and Education

Those who wish to receive further information about the Congress are requested to communicate their names and full addresses to the Secretary, Frank Smithies at the Mathematical Institute, 16 Chambers Street, Edinburgh 1, Scotland.

(Extracted from preliminary announcement)

#### N.P.L. Mathematical Table Series

The National Physical Laboratory has announced an N.P.L. Mathematical Table Series to contain tables arising from computational problems received in the Mathematics Division of the N.P.L.

The first volume, *The Use and Construction of Mathematical Tables*, by L. Fox, will be reviewed shortly in *MTAC*.

Forthcoming volumes which have been announced are:

- Vol. 2, L. Fox, *Tables of Everett Interpolation Coefficients*, and  
 Vol. 3, G. F. Miller, *Tables of Generalized Exponential Integrals*.

C. B. T.

#### CORRIGENDA

Review 44[X, Z], *MTAC*, v. 11, 1957, l. 10, p. 48.

for A. H. Tabu      read A. H. Taub.