quadratures, nonlinear differential equations, hydrodynamical equations, linear programming, aircraft design computation, weather forecasting, matrix inversion, and astronomy.

The concluding miscellaneous section includes a survey of logical function computers, a description of contact grids as an aid to relay network synthesis, a discussion of 'statistical programs in industry and description of an equivalence algebra for representation of digital machines.

Aside from the content of the papers, interested researchers will find a number of new references associated with several of the articles.

Moreover, the publisher has been quite considerate in providing a list of addresses of the authors as well as short translated summaries of all the papers.

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TABLE ERRATA

Reviews and papers in this issue mention errata in the following works:

A. J. C. Cunningham & H. J. Woodall, *Factorization of $y^n \pm 1$, $y = 2, 3, 5, 6, 7, 10, 11, 12$ up to high powers (n)*, Francis Hodgson, London, 1925. (See Raphael M. Robinson note, "Some factorizations of numbers of the form $2^n \pm 1$," p. 265.)

R. B. Dingle, D. Arndt, & S. K. Roy, "The integrals

$$A_p(x) = (p!)^{-1} \int_0^\infty \epsilon^p (\epsilon + x)^{-1} e^{-\epsilon} d\epsilon \text{ and } B_p(x) = (p!)^{-1} \int_0^\infty \epsilon^p (\epsilon + x)^{-2} e^{-\epsilon} d\epsilon$$

and their tabulation," Review 119, p. 279.

D. N. Lehmer, *List of Prime Numbers from* 1 *to* 10006721, Review 107, p. 272.

257. —C. A. Coulson & W. E. Duncanson, "Some new values for the exponential integral," *Phil. Mag.*, v. 33, 1942, p. 754–761.

A comparison of tables of $Ei(x)$ and $-Ei(-x)$ appearing in this paper with more elaborate tables by Harris [1] reveals a total of nine rounding errors and two more serious errors in the former.

Rounding errors appear in the 10-figure values given by Coulson and Duncanson for $Ei(x)$ when $x = 20, 31, 46$, and 47, and for $-Ei(-x)$ when $x = 16, 20, 23, 29$, and 39.

Their claim of accuracy to within 2 units in the last figure is refuted, however, by the following emendations. Corresponding to $x = 44$ and 45 their approximations to $Ei(x)$ should be increased by nearly 8 units in the last place; that is, for 2.990444711, read 2.990444719, and for 7.943916028, read 7.943916036, respectively.

The accuracy of Harris's table of the interpolation coefficients $R_n(1)$ was confirmed by me by an independent calculation, and these data were then used to

verify the consistency of his 18-figure values for Ei(44) and Ei(45) with the adjacent entries in his table.

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1. FRANK E. HARRIS, "Tables of the exponential integral Ei(x)," *MTAC*, v. 11, 1957, p. 9–16.

258.—CARL-ERIK FRÖBERG, *Hexadecimal Conversion Tables*, C. W. K. Gleerup, Lund, Sweden, 1957, (*MTAC*, Review **82**, v. 11, 1957, p. 208.)
   The following erratum has been found:
   Page 11, *for* 0.² 65 00D41 DF3B6 45A1D
         read 0.² 65 00D4F DF3B6 45A1D.

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NOTES

Acknowledgments to Referees

The editors of *Mathematical Tables and Other Aids to Computation* were happy to take advantage of the action of the Council of the American Mathematical Society at their December 1956 meeting in Rochester, New York, and furnish to them a list of persons who have refereed papers for *MTAC* during 1955–1956. This list was incorporated with names furnished by various other journals and published on pages 27 and 28 of AMERICAN MATHEMATICAL SOCIETY NOTICES, April 1957. The editors of *MTAC* deeply appreciate the services rendered by its referees.

C. B. T.

The Illinois Journal of Mathematics

The Illinois Journal of Mathematics is devoted to the publication of original research papers in pure and applied mathematics. The first two issues of this journal have appeared with the tables of contents listed below.

Contents, Vol. 1, No. 1   *March, 1957*

   A fundamental inequality in the theory of valuations, by I. S. Cohen & Oscar Zariski
   Kompakte projektive Ebenen, by Hans Freudenhthal
   Homology of Noetherian rings and local rings, by John Tate
   Finite dimensionality of certain transformation groups, by Deane Montgomery
   On modules of trivial cohomology over a finite group, by Tadasi Nakayama
   Markoff processes and potentials I, by G. A. Hunt
   Inequalities for asymmetric entire functions, by R. P. Boas, Jr.
   On a class of linear differential equations with periodic coefficients, by Jack K. Hale