NOTE

Translation of Russian Journal

Pergamon Press, Ltd. has announced the initiation in 1962 of the quarterly publication for the Pergamon Institute of U. S. S. R. Computational Mathematics and Mathematical Physics, consisting of papers translated from Zhurnal vychislitel’noi matematiki i matematicheskoi fiziki, which succeeded Vychislitel’naià Matematika in 1961. (For an announcement of the latter, see MTAC, v. 13, 1959, p. 231.)

The new publication includes also the translated lists of contents of all the Russian issues appearing up to the time of going to press.


TABLE ERRATA


In v. 1, on p. 144, the right side of eq. (8) should be multiplied by $-1$.

In v. 2, on p. 119, the first factor of the right side of eq. (20) should read $\left(\frac{\alpha}{2\pi}\right)^{1/2}$.

On the succeeding page, in eq. (5) the factor $e^{-(1/4)\alpha^2}$ should be replaced by $e^{-(1/4)\alpha^2}$.

John J. Bowman
Conductron Corporation
Ann Arbor, Michigan


On page 228, in Table 38, the following terminal-digit corrections are necessary in the tabulated values of the modified Hankel function of order $\frac{2}{3}$:

<table>
<thead>
<tr>
<th>$x$</th>
<th>$(2/\pi)K_{2/3}(x)$</th>
<th>read</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1</td>
<td>3.026</td>
<td>3.025</td>
</tr>
<tr>
<td>0.3</td>
<td>1.2716</td>
<td>1.2647</td>
</tr>
<tr>
<td>0.4</td>
<td>0.9681</td>
<td>0.9658</td>
</tr>
<tr>
<td>0.5</td>
<td>0.7678</td>
<td>0.7677</td>
</tr>
<tr>
<td>2.8</td>
<td>0.029877</td>
<td>0.029878</td>
</tr>
<tr>
<td>2.9</td>
<td>0.026540</td>
<td>0.026541</td>
</tr>
<tr>
<td>3.6</td>
<td>0.011770</td>
<td>0.011769</td>
</tr>
<tr>
<td>3.7</td>
<td>0.010499</td>
<td>0.010498</td>
</tr>
<tr>
<td>3.8</td>
<td>0.009369</td>
<td>0.009368</td>
</tr>
<tr>
<td>3.9</td>
<td>0.008362</td>
<td>0.008363</td>
</tr>
<tr>
<td>5.2</td>
<td>0.0019637</td>
<td>0.0019636</td>
</tr>
</tbody>
</table>
All these errors exceed 0.6 unit in the final decimal place. This list, which resulted from a check of the entire table, is believed to contain all errors significantly greater than possible minor rounding errors.

H. C. Thacher, Jr.

Argonne National Laboratory
Argonne, Illinois


In the table of factors of $M_p$ the following corrections are necessary.

The line
9337  2838449 · 2405633
should be replaced by the two lines:
9337  2838449
9397  2405633

Similarly, the line
9601  3513967 · 16974569 · 17256487
should be replaced by the two lines:
9601  3513967 · 16974569
9619  17256487

Moreover, two new entries should be inserted between the lines corresponding to $p = 1439$ and $p = 1543$. These additional lines are:
1451  174121 · 696481
1459  93377

All other entries in this table are correct, and no further factors less than the stated limit have been omitted.

John D. Brillhart

University of San Francisco
San Francisco, California


On page 64, in Section 4.2, entitled "Converging factors for Kummer's functions," several corrections are necessary in equations (4.2.18).

The constant term in the expression for $b_2$ should read $\frac{8}{2835}$, in place of $-\frac{8}{567}$.

In the expression for $b_3$, the term free of $k$ should read

$$\frac{\mu^2}{\lambda} - \frac{1}{3} \lambda^2 + \frac{13}{3} \mu + \frac{14}{3} \lambda - \frac{16}{8505},$$

in place of

$$\frac{7}{3} \mu - \frac{13}{3} \lambda^2 + \frac{643}{540} \lambda - \frac{16}{8505}.$$

In the expression for $b_4$, the following three substitutions should be made:

(1) The coefficient of $k^2$ should read

$$-2\lambda^2 - \frac{\mu^2}{\lambda} - 6\mu - \frac{364}{45} \lambda + \frac{152}{8505},$$
in place of
\[ 2\lambda^2 - 4\mu - \frac{1321}{180} \lambda + \frac{152}{8505}. \]

(2) The coefficient of \( k \) should read
\[ 2\lambda\mu + \frac{4}{3} \mu^2 + \frac{13}{3} \lambda^2 + \frac{679}{135} \mu + \frac{2678}{567} \lambda - \frac{64}{8505}, \]
in place of
\[ 2\lambda\mu - \lambda^2 + \frac{319}{135} \mu + \frac{2111}{567} \lambda - \frac{64}{8505}. \]

(3) The term independent of \( k \), indicated in the book merely by \( \epsilon_i \), is
\[ \frac{5}{3} \lambda \mu - \frac{1}{3} \lambda^2 - \frac{22}{3} \mu^2 + \frac{583}{135} \lambda^2 - \frac{2473}{135} \mu - \frac{2066}{135} \lambda - \frac{8992}{12629925}. \]

The undersigned have also found the complete expression for \( b_0 \) and all of the expression for \( b_k \) except for the term independent of \( k \).

Furthermore, three minor misprints occur in the text: on p. 61, on the second line of section 4.2, in the formula for \( S_1 \), for \( n! \), read \( r! \); on p. 64, in the first of equations (4.2.17), for \( b_{0''} - b_1' \), read \( b_0'' - b_0' \); and in the last of equations (4.2.17), for \( b_{n+1}'' - b_{n+1}' \), read \( b_{n+1}'' - b_{n+1}' \).

R. A. Carr-Hill
A. Casson
A. R. Curtis

National Physical Laboratory
Teddington, England

CORRIGENDA


The author’s affiliation is given incorrectly on p. 222; it should read

Institute of Fluid Dynamics and Applied Mathematics
University of Maryland
College Park, Maryland

This is stated correctly at the end of his review on p. 311.


On p. 424, in section 2A, read “it easily follows that \( 5|A_p \) iff \( p \equiv \pm 3 \pmod{8} \) and \( 5|B_p \) iff \( p \equiv \pm 1 \pmod{8} \).”

In the Table of Factors the first factor of \( B_p \) when \( p = 227 \) should read 5449, instead of 54449. Corresponding to \( p = 443 \), the entries \( c \) and 5 should be interchanged.

A typographical error at \( p = 769 \) has previously been noted (Math. Comp., v. 17, 1963, p. 215).

JOHN D. BRILLHART