## ERRATA

On the computation of Mathieu functions
by the Group "NUMERICAL ANALYSIS" at Delft University of Technology (Journal of Engineering Mathematics, 7 (1973) 39-61)

In this paper some misprints occur, of which at least one is a serious error. A list of known misprints is given below:

Page 40 formula 4 c should read:

$$
\begin{equation*}
M S_{2 r}^{(j)}(z, q)=\sum_{k=1}^{n}(-1)^{k+r} B_{2 k}^{(2 r)}\left\{J_{k-s}\left(u_{1}\right) Z_{k+s}^{(j)}\left(u_{2}\right)-J_{k+s}\left(u_{1}\right) Z_{k-s}^{(j)}\left(u_{2}\right)\right\} / B_{2 s}^{(2 r)} \tag{4c}
\end{equation*}
$$

Page 48 line 3 should read:

$$
\mathrm{w}:=2 * \text { order }+1 ; \mathrm{w} 2:=\mathrm{w} * \mathrm{w} ;
$$

Page 54 line 24 should read:

$$
\mathrm{Y}:=\mathrm{H} *(\mathrm{Q} * \mathrm{HC}+\mathrm{P} * \mathrm{HS}) ;
$$

Page 54 line 40 should read:

$$
\mathrm{A}[14]:=-0.0004606261662063 ;
$$

Page 55 line 40 should read:
value $c, x$; integer $c$; real $x, j, y$, label alarm;
Page 55 line 44 should read:
begin real $\mathrm{p}, \mathrm{q}, \mathrm{h}, \mathrm{hc}$, hs; array $\mathrm{a}[0: 30]$;
Page 56 lines 51 and 52 should read:
$\mathrm{h}:=0.7978845608028654 / \operatorname{sqrt}(\mathrm{x}) ;$
$\mathrm{j}:=\mathrm{h} *(\mathrm{p} * \mathrm{hc}-\mathrm{q} * \mathrm{hs})$;
Page 58 lines 31-32 should read:
comment $5 * 10^{-11}$ is the relative accuracy of the i.c.l. 1905 computer;
for $\mathrm{m}:=\mathrm{mstar}-1$ step -1 until nmax do $\mathrm{p}:=1 /(\mathrm{m} * \mathrm{a}-\mathrm{p})$;
begin array $\mathrm{g}[\mathrm{k}+1: \mathrm{nmax}] ; \mathrm{g}[\mathrm{nmax}]:=\mathrm{p}$;
This error can be serious in the computation of Bessel functions.
Page 57 line 7 should read:

$$
\mathrm{a}[4]:=1.2879940988576776
$$

Page 59 lines 21-22 should read:

$$
\begin{aligned}
& \mathrm{j}, \mathrm{z}\left[-\operatorname{order} / 2+0.1: \mathrm{kmax}_{\mathrm{r}}+\text { order } / 2+1.9\right]: \mathrm{j}[\mathrm{k}]=\mathrm{J}_{\mathrm{k}}\left(\sqrt{ } \mathrm{q}^{-\mathrm{x}}\right) \\
& \mathrm{z}[\mathrm{k}]=\mathrm{J}_{\mathrm{k}}\left(\sqrt{ } \mathrm{q} \mathrm{e}^{\mathrm{x}}\right) \text { or } \mathrm{Y}_{\mathrm{k}}\left(\sqrt{ }\left(\mathrm{qe}^{\mathrm{x}}\right)\right.
\end{aligned}
$$

Page 60 line 5 should read:

$$
\sin (k x)=\sin ((k-1) x) \cos (x)+\cos ((k-1) x) \sin (x)
$$

Page 60 line 11 should read:

$$
\operatorname{si}[k]:=\operatorname{si}[k-1] * \operatorname{co}[1]+\operatorname{co}[k-1] * \operatorname{si}[1] ; \text { end } k
$$

Page 60 line 24 should read:
If no $=4$ then begin $\mathrm{ez}:=\exp (\mathrm{x}) ; \mathrm{u} 1:=\mathrm{h} / \mathrm{ez} ; \mathrm{u} 2:=\mathrm{h} *$ ez end;
All these errors are due to incorrect copying of our original programs. Therefore our claim of accuracy in our results is not affected by them.

