## Correction to

# On the solution of simultaneous first order implicit differential equations <br> Math. Ann. 137, 9-16 (1959) 

By
Sabat Ablan and Arthur B. Brown in Flushing N. Y.
Appraisal (45) on page 15 for $Q_{2}(x)$ must be modified since, as Prof. W. J. Coles of The University of Utah pointed out, Lemma 4 was applied incorrectly on line 6 of page 16. This is because the identification of the right side of (47) with the first line of (26) requires that $\frac{d}{d x}\left(b_{i}\right)=c_{i}$, so that (45) is proved only for the special case that $c_{i}=0(i=1, \ldots, n)$. However, the main conclusion (first sentence) of Theorem 4 , as well as appraisal (46) for $Q_{2}(x)$, remain valid, since their proofs were given correctly. (In (46) the left bracket symbol and the $\Sigma$ symbol should be interchanged.)

The correction is accomplished by adding to the right side of (45) the term $+|x-a| \max _{i} \sum_{j} A_{i j}\left|c_{j}\right|$, and replacing, on page 16 , lines $6,7,8$ and the first half of line 9 by the following: "which, by (15) and (44),

$$
\leqq \sum_{i}\left[A_{i j}\left|\int_{a}^{x} F_{f}(t, b, c) d t\right|+B_{i j}\left|F_{j}(x, b, c)-c_{j}\right|\right],
$$

and, by Lemma 3, (30) and (33), we infer that (45) as modified is correct."
We observe also that (46) is true regardless of the choice of $Y_{i}(x ; 1)$, providing (10) are satisfied, since the proof of (46) makes no reference to (44).

