TRANSACTIONS OF THE
AMERICAN MATHEMATICAL SOCIETY
Volume 207, 1975

ERRATUM TO "TRANSVERSALLY PARALLELIZABLE FOLIATIONS OF CODIMENSION TWO"

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The proof given in [1] for Lemma (7.6) is incorrect. A correct proof, which is also much simpler, is easily obtained by using Corollary (8.2) in the same paper. Of course, (8.2) does not depend on (7.6).

We want to show that $\pi_1(M, A)$ is not cyclic, so we assume the contrary. The two cases to consider continue to be those in which $\mathcal{F}_Z$ does or does not admit a compact leaf. The first of these cases was correctly handled in [1], but the second was not. If the leaves of $\mathcal{F}_Z$ are noncompact, then (8.2) implies that $\mathcal{F}_Z$ has no limit cycles. The natural surjection

$$\pi_1(M, A) \longrightarrow \pi_1(M, L),$$

where L is a leaf of $\mathcal{F}_Z$, shows that $\pi_1(M, L)$ is cyclic, hence (5.4) and (5.5) imply that the leaves of $\mathcal{F}_Z$ are the fibers of a bundle map $M \longrightarrow S^1$. This contradicts the fact that the leaves are not compact and completes the proof.

There are also serious omissions in the bibliography. The theory of e-foliations in codimension one originates in the thesis of G. Reeb [3]. There he studies foliations defined by a closed nonsingular 1-form, a condition easily seen to be equivalent to ours. In [1, p. 90] I referred to an alternate proof of Theorem (5.5) using differential forms and gave two references. This proof should have been credited to Reeb as originator and his thesis [3, pp. 111–112] should have been cited as a reference. Another excellent exposition of this material, under the weaker assumption that the closed 1-form is of class C^0, is given in [2, §§2 and 3].

REFERENCES

1. L. Conlon, *Transversally parallelizable foliations of codimension two*, Trans. Amer. Math. Soc. 194 (1974), 79–102.

2. J. Plante, *Anosov flows*, Amer. J. Math. 94 (1972), 729–754.

3. G. Reeb, *Sur certaines propriétés topologiques des variétés feuilletées*, Actualités Sci. Indust., no. 1183, Hermann, Paris, 1952. MR 14, 1113.

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Received by the editors December 19, 1974.