CORRECTION TO "PERIODIC SOLUTIONS OF FOURTH-ORDER DIFFERENTIAL EQUATIONS"

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In the proof of the theorem in [1] we need the fact that the solutions of

\[ x' = f(x, y(t)) \]

are defined for all \( t \geq 0 \). The argument that is given, namely that we can assume that \( \|f(x, y)\| \leq 1 \), is not correct. Therefore an extra hypothesis is needed to insure the existence of solutions of (3) for all \( t \geq 0 \). For example, this global existence property would be satisfied if one assumed that for every compact set \( K \subset \mathbb{R}^2 \) there exist constants \( M \) and \( B \) such that

\[ \|f(x, y)\| \leq M\|x\| + B \quad (x \in \mathbb{R}^2, y \in K). \]

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REFERENCE


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