

Corrigendum: Higher order averaging theory for finding periodic solutions via Brouwer degree (2014 *Nonlinearity* 27 563)

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On pages 566, 573, 577 and 578 of [1] the matrices $e^{\eta(t,z)}$, $e^{-\eta(t,z)}$ and $M(z)$ should have been written $Y(t, z)$, $Y(t, z)^{-1}$ and Id , respectively, where $Y(t, z)$ is the $n \times n$ fundamental matrix solution of the periodic linear differential system

$$u' = \partial F_0(t, \varphi(t, z)) u,$$

such that $Y(0, z) = Id$ is the identity matrix and $\varphi(t, z)$ is a periodic solution of the unperturbed system $x'(t) = F_0(t, x)$, such that $\varphi(0, z) = z$. Moreover, in view of the above corrections the expression $M(z) = \eta(T, z)$ (see the first line of the page 577) must be avoided.

References

- [1] Llibre J, Novaes D D and Teixeira M A 2014 Higher order averaging theory for finding periodic solutions via Brouwer degree *Nonlinearity* 27 563–83