ERRATUM: HIGHER ORDER AVERAGING THEORY FOR FINDING PERIODIC SOLUTIONS VIA BROUWER DEGREE

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In the paper [1] instead of the matrices $e^{\eta(t,z)}$, $e^{-\eta(t,z)}$, and $M(z)$ it must be the matrices $Y(t,z)$, $Y(t,z)^{-1}$, and Id the identity matrix, respectively. The matrix $Y(t,z)$ is the $n \times n$ fundamental matrix solution of the periodic linear differential system

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

such that $Y(0,z) = Id$ is the identity matrix, and $\varphi(t,z)$ a periodic solution of the unperturbed system $x'(t) = F_0(t,x)$.

The change of these matrices appear in the pages 566, 573, 577, and 578.

References

[1] J. Llibre, D.D. Novaes and M.A. Teixeira, *Higher order averaging theorem for finding periodic solutions via Brouwer degree*, Nonlinearity **27** (2014), 563 â 583.

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