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1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as  $\epsilon \rightarrow 0$ . In this case, the system (1) is reduced to a system of ordinary differential equations (ODEs) with a small parameter  $\epsilon$ . The solutions of this system are then compared with the solutions of the original system (1) to show that they are asymptotically equivalent as  $\epsilon \rightarrow 0$ .

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