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6. Conclusions

The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) for large values of the parameter ϵ . It is shown that the solutions of the system (1) are asymptotically equivalent to the solutions of the system (2) for large values of ϵ . The asymptotic expansion of the solutions of the system (1) is obtained in the form of a power series in ϵ^{-1} . The leading term of this expansion is the solution of the system (2). The higher-order terms of the expansion are determined by the solutions of the system (3). The asymptotic expansion of the solutions of the system (1) is valid for large values of ϵ and for small values of ϵ^{-1} .

The second part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) for small values of the parameter ϵ . It is shown that the solutions of the system (1) are asymptotically equivalent to the solutions of the system (4) for small values of ϵ . The asymptotic expansion of the solutions of the system (1) is obtained in the form of a power series in ϵ . The leading term of this expansion is the solution of the system (4). The higher-order terms of the expansion are determined by the solutions of the system (5). The asymptotic expansion of the solutions of the system (1) is valid for small values of ϵ and for large values of ϵ^{-1} .

The asymptotic behavior of the solutions of the system (1) for large values of ϵ and for small values of ϵ is studied in the third part of the paper. It is shown that the solutions of the system (1) are asymptotically equivalent to the solutions of the system (6) for large values of ϵ and for small values of ϵ . The asymptotic expansion of the solutions of the system (1) is obtained in the form of a power series in ϵ^{-1} and ϵ . The leading term of this expansion is the solution of the system (6). The higher-order terms of the expansion are determined by the solutions of the system (7). The asymptotic expansion of the solutions of the system (1) is valid for large values of ϵ and for small values of ϵ .

The asymptotic behavior of the solutions of the system (1) for large values of ϵ and for small values of ϵ is studied in the fourth part of the paper. It is shown that the solutions of the system (1) are asymptotically equivalent to the solutions of the system (8) for large values of ϵ and for small values of ϵ . The asymptotic expansion of the solutions of the system (1) is obtained in the form of a power series in ϵ^{-1} and ϵ . The leading term of this expansion is the solution of the system (8). The higher-order terms of the expansion are determined by the solutions of the system (9). The asymptotic expansion of the solutions of the system (1) is valid for large values of ϵ and for small values of ϵ .

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