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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 of equations (1) as $t \rightarrow \infty$. It is shown that the solutions of this system tend to zero as $t \rightarrow \infty$ if and only if the matrix A is stable. The second part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system of equations (2) as $t \rightarrow \infty$. It is shown that the solutions of this system tend to zero as $t \rightarrow \infty$ if and only if the matrix A is stable and the matrix B is nonsingular.

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2. The third part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system of equations (3) as $t \rightarrow \infty$. It is shown that the solutions of this system tend to zero as $t \rightarrow \infty$ if and only if the matrix A is stable and the matrix B is nonsingular. The fourth part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system of equations (4) as $t \rightarrow \infty$. It is shown that the solutions of this system tend to zero as $t \rightarrow \infty$ if and only if the matrix A is stable and the matrix B is nonsingular.

3. The fifth part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system of equations (5) as $t \rightarrow \infty$. It is shown that the solutions of this system tend to zero as $t \rightarrow \infty$ if and only if the matrix A is stable and the matrix B is nonsingular.

4. The sixth part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system of equations (6) as $t \rightarrow \infty$. It is shown that the solutions of this system tend to zero as $t \rightarrow \infty$ if and only if the matrix A is stable and the matrix B is nonsingular.

5. The seventh part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system of equations (7) as $t \rightarrow \infty$. It is shown that the solutions of this system tend to zero as $t \rightarrow \infty$ if and only if the matrix A is stable and the matrix B is nonsingular.

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