

## **BIFURCATION OF SMALL SYNCHRONOUS AUTO-OSCILLATIONS OF TWO DYNAMICAL SYSTEMS WITH CLOSE FREQUENCIES**

*V.V. Strygin, G.Yu. Severin*

Mathematical approach to the problem of bifurcation of synchronous auto-oscillations of two Hopf dynamical systems is in the focus of the paper. It is assumed that the systems linearized at the zero equilibrium state have close frequencies. Sufficient conditions for generation of auto-oscillations are found.