

**Belov E. I., Latmanizova Yu. N., Sorokin E. V.**

**Application of visualization of the inverse Jacobi matrix and singular analysis for the determination of sensor nodes in electric power systems.**

Three methods for searching sensor nodes in the power system are considered: the experimental method (in RastrWin PC), the visualization of the inverse Jacobi matrix and the singular analysis. A conclusion is drawn about the most effective experiments to determine the sensitive nodes of electric power systems (EPS). The results obtained with use of three methods are compared.

*Keywords: Jacobi matrix, visualization, singular analysis, sensory nodes.*