

Summary

In this graduate project examines the issues related to the assessment of the effect of asymmetry on the work, causes, consequences and existing solutions of asymmetric faults. Also considered are the features of asymmetric modes of operation of electrical networks and methods for reducing the asymmetry of currents and electrical voltages.

The calculation of indicators of asymmetric electrical networks. For this, we performed two stages: calculation of asymmetry indices for currents and voltages of the electrical network; averaging the experimental data An automated system for balancing phase currents and voltages was also developed.

The diploma project consists of 90 pages, 16 tables, 36 figures and bibliographic sources.