

Estimate of Maximum Expected Intensity of One-Half-Wave Lines Dancing

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Abstract : In this paper, the regression dependence of dancing intensity from wind speed and length of span was established due to the statistic data obtained from multi-year observations on line wires dancing accumulated by power systems of Kazakhstan and the Russian Federation. The lower and upper limitations of the equations parameters were estimated, as well as the adequacy of the regression model. The constructed model will be used in research of dancing phenomena for the development of methods and means of protection against dancing and for zoning plan of the territories of line wire dancing.

Keywords : power lines, line wire dancing, dancing intensity, regression equation, dancing area intensity

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