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3P33 - Calculation and Analysis of Self-resistance of Grounding Material

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The correct estimation of the self resistance of grounding conductor (due to the grounding resistance caused by the self resistance of grounding conductor) is of great significance for improving the design and construction level of grounding grids and the reasonable selection of the specifications of grounding conductors. However, there is no scientific calculation method for its accurate value, so it can not be considered accurately in actual engineering design. Therefore, the self resistance of grounding body is calculated and analyzed by means of a kind of grounding body self resistance calculation and analysis. The results show that the line resistance, soil resistance and contact resistance of earth and soil are the main factors affecting the size of the self resistance of grounding body. In order to facilitate the calculation and analysis of the self resistance of grounding conductor, the self resistance curve of grounding body in different soil environment is drawn. Finally, the method of reducing the self resistance of grounding body in practical engineering is put forward, which provides reference for the grounding design and construction.

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