

Modeling of Induced Voltage in Disconnected Grounded Conductor of Three-Phase Power Line

Authors : Misho Matsankov, Stoyan Petrov

Abstract : The paper presents the methodology and the obtained mathematical models for determining the value of the grounding resistance of a disconnected conductor in a three-phase power line, for which the contact voltage is safe, by taking into account the potentials, induced by the non-disconnected phase conductors. The mathematical models have been obtained by implementing the experimental design techniques.

Keywords : contact voltage, experimental design, induced voltage, safety

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