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Modeling of electric networks with the high-voltage coaxial cables.

Modes modeling technique of the electric networks made with use of single-core screened cables with the sewed polyethylene isolation are offered. The technique realized in the Fazonord program complex is based on use of phase coordinates and allows counting the modes, mutual electromagnetic influences and electromagnetic fields in complex electrical power system. Computer modeling of electric network modes made with use of screened cables proved the applicability of the offered technique for the solution of the practical tasks arising at design and operation of electrical power systems.

Key words: electrical power system, electric network, screened cable, modeling of the modes and electromagnetic fields in phase coordinates.

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