

Chapter 3: Methodology

This chapter outlines the methodologies employed in the thermal analysis of overhead conductors. The approach integrates theoretical modeling, numerical simulations, and empirical data to assess the thermal performance under various operational and environmental conditions.

3.1 Theoretical Framework

The thermal behavior of overhead conductors is governed by the heat balance equation, which equates the heat generated within the conductor to the heat dissipated to the environment. The primary components of this balance include:

- Heat Gain:
 - Joule Heating (I^2R Losses): Electrical currents generate heat proportional to the square of the current and the conductor's resistance.
 - Solar Radiation: Conductors absorb solar energy, contributing to their thermal load.
- Heat Loss:
 - Convection: Heat loss to the surrounding air, influenced by wind speed, direction, and ambient temperature.
 - Radiation: Emission of infrared radiation from the conductor's surface.
 - Evaporation: In moist conditions, evaporation can aid in cooling the conductor.

The steady-state temperature of the conductor can be determined using the equation:

$$I^2 R + Q_s = Q_c + Q_r$$

Where:

- I = Current through the conductor (A)
- R = Electrical resistance of the conductor (Ohms)
- Q_s = Heat gain from solar radiation (W)
- Q_c = Heat loss due to convection (W)
- Q_r = Heat loss due to radiation (W)

3.2 Numerical Simulation

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