Section 2.2 — Lumped parameter model

Section 2.3 — Samples generation

Equivalent electrical circuit

Electrodes, soil, and meter parameters

Electrical circuit parameters
$$\mathbf{P}^m = \left[\mathbf{R}_f^m, \mathbf{R}_p^m, \mathbf{C}_f^m, \mathbf{C}_p^m, k^m\right]$$

Section 2.1 — Electrical parameter surveys

Technical documentation

Start

Section 2.4 — Computer simulation

Clamp-on meter readings
$$\mathbf{Z}_{med}^m = \left[Z_{med}^{m1}, Z_{med}^{m2}, \cdots, Z_{med}^{mn}\right]$$

Section 2.5 — Machine learning model

Turbines grounding resistance
$$\mathbf{R}_{fest}^m = \left[R_{fest}^{m1}, R_{fest}^{m2}, \cdots, R_{fest}^{mn}\right]$$

Finish

$$\mathbf{R}_f^m = \left[R_f^{m1}, R_f^{m2}, \cdots, R_f^{mn}\right]$$
$$\mathbf{R}_p^m = \left[R_p^{m1}, R_p^{m2}, \cdots, R_p^{mu}\right]$$
$$\mathbf{C}_f^m = \left[C_f^{m1}, C_f^{m2}, \cdots, C_f^{mn}\right]$$
$$\mathbf{C}_p^m = \left[C_p^{m1}, C_p^{m2}, \cdots, C_p^{mu}\right]$$
$$k^m$$