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Publication Notice

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## **Directives concerning the protection of telecommunication lines against harmful effects from electric power and electrified railway lines. Volume II: Calculating induced voltages and currents in practical cases**



The Directives provide a comprehensive description of electromagnetic effects due to the close proximity of telecommunication lines to power and electrified railway systems. Such effects may result in danger to personnel, damage to telecommunication equipment, deterioration of telecommunication transmission quality or to disturbance of signalling.

Volume II "Calculating induced voltages and currents in practical cases" describes the methods for evaluating voltages and currents resulting from capacitive, inductive and conductive coupling in a variety of commonly-encountered situations.

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This Volume deals with calculating induced quantities using simple estimation or calculation methods that requires conventional computing facilities.

It gives information about:

- simplified calculation for all types of coupling (capacitive, inductive, conductive);
- calculation of capacitive coupling;
- calculation of inductive coupling;
- calculation of conductive coupling;
- calculation of inducing currents and voltages;
- calculation of induced currents and voltages.

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