

Mutual Impedance in Parallel Lines – Protective Relaying and Fault Location Considerations

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Abstract—When two or more lines are running parallel to each other, mutual impedances between the lines modify the voltage and current profile measured in the protective relays protecting each line. Analysis of transmission line impedance formulas can provide interesting data to the protection engineer. Fault location is an algorithm in protective relays that reports the distance to the fault. Ground fault location is discussed, as is the implication of requiring the measurement of the parallel line $3I_0$ for a more accurate calculation. Since the algorithm is slow and done after the trip decision, the $3I_0$ measurement does not necessarily have to be sampled in the same bus. Protective relaying considerations for preventing overreach and loss of directionality under certain power system operating conditions are illustrated and discussed. The paper illustrates the benefit of measuring $3I_0$ (the parallel line zero-sequence current) for fault location.

I. INTRODUCTION

In transmission systems throughout the world, it is very common to find double-circuit towers transmitting power in narrow physical corridors. There are also places in power systems where single-circuit towers are run in parallel in wide corridors. These are examples of parallel transmission lines. More complex structures and arrangements usually emerge from power plants where several lines originate. These could be run in parallel for considerable distances.

Fig. 1(a) is typical in double-circuit towers. The two lines start and arrive in the same buses of the power system. This arrangement is generally the one that has received most consideration in literature. Fig. 1(b) illustrates the partial parallel trajectory of the two lines for a distance “d.” The two lines originate in a common bus and end in separate buses. Fig. 1(c) and Fig. 1(d) illustrate independent lines running in parallel for a distance “d.” The parallel path may be the total run of the shortest line as in Fig. 1(c) or a partially parallel path as in Fig. 1(d).

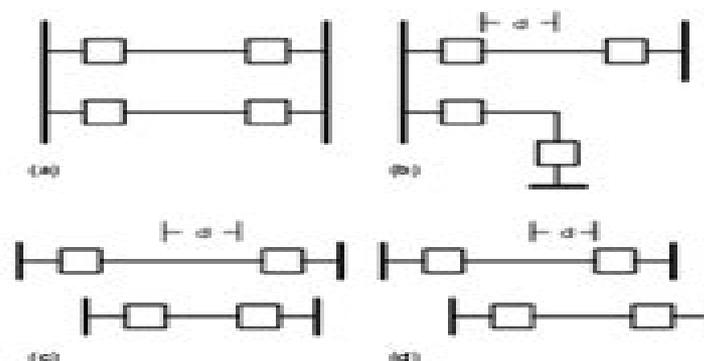


Fig. 1. Possible Configurations of Parallel Lines in Power Systems.

II. TRANSMISSION LINE IMPEDANCES: AN OVERVIEW

Typical line protection distance relays require knowledge of transmission line positive- and zero-sequence impedances. It is sufficient for the algorithms in distance relays to approximate the transmission line with these two impedances. In reality, transmission lines have a suite of impedances represented in an impedance matrix. The impedance matrix reflects the mutual effects of the different phases in the same line as well as to any other conductor in the line arrangement. It is only under ideal conditions that a transmission line can be represented fully with its zero- and positive-sequence impedances.

A. Self and Mutual Impedances Using Modified Carson's Equations

When the analysis of two conductors carrying currents in a parallel path, as shown in Fig. 2(a), is performed using basic electro-magnetic flux linkage equations [1][2], the following equations define the self and mutual impedances:

$$Z_{xx} = r_x + j0.07537 \left(\frac{r}{60} \right) \ln \left(\frac{1}{\text{GMR}_x} \right) \text{ohms/km} \quad (1)$$

$$Z_{xy} = j0.07537 \left(\frac{r}{60} \right) \ln \left(\frac{1}{d_{xy}} \right) \text{ohms/km} \quad (2)$$

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