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classic text offers you the key to understanding short circuits, open conductors and other problems relating to electric power systems that are subject to unbalanced conditions.

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The analysis of unsymmetrical faults in power systems is carried out by finding the symmetrical components of the unbalanced currents. Since each sequence current causes a voltage drop of that sequence only, each sequence current can be considered to flow in an independent network composed of impedances to current of that sequence only.

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systems for analysis of unbalanced sources applied to a symmetrical system. • Faulted systems (except for 3-phase faults) are not symmetrical systems, so it would appear that symmetric component is not much good for asymmetrical faults. • Practical way - Replace the fault with an unbalanced source, then the network becomes symmetric.

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analysis of system operations. Short-circuit programs provide the bus voltages and line currents, in the sequence and phase domain, for simple balanced and unbalanced short circuits in the network under study. Frequently, protection engineers have to analyze faults that are more complex than simple shunt faults.

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