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The Positive Direction in Relay Protection

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This paper will provide a brief discussion on past polarization methods on EM relays but will highlight newer, more reliable, directional functionality available in microprocessor relays.

Costello, Schweitzer Engineering Laboratories, Inc. Abstract—Phase and ground directional elements are relied on for fa. t and secure protection throughout the power system. ...

In modern medium-voltage (MV) distribution lines and in almost all high voltage transmission lines, a fault can be in two different directions from a relay and it is highly desirable for a ...

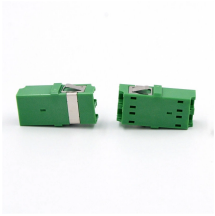
In such cases, we need a protective relay function able to discriminate between current in one direction versus current in the other direction. The ANSI/IEEE number code designation for a directional ...

To understand the terminology used with directional overcurrent relays, we need to revisit the basic operating principle of electromechanical induction relays, independent of their specific...

In modern medium-voltage (MV) distribution lines and in almost all ...

In this article, we propose a fault directional identification scheme that depends on the positive-sequence components of current based on an investigation of pre-fault and fault phase ...

For faults in the forward direction, the ratio of V/I will give positive impedance and for faults in reverse direction the ratio of V/I will give negative impedances.



Distance protection relays measure impedance to detect faults by comparing the measured impedance to a set value. They are used to protect transmission lines and provide faster, more selective ...

Identifying the direction of fault is an essential mission of the transmission line protective scheme. This paper discusses a direction protective technique based on a positive impedance...

Directional elements are fundamental to protection scheme security and selectivity, performing such critical tasks as supervising distance elements and controlling overcurrent elements.

	Once the power flow reference direction has been chosen, the flow of the posi-tive reactive power towards the load (refer to the picture above) is the defined “forward” direction; on the contrary, the ...

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