DSP technology and relay protection

This paper designs an LVDC short-circuit protection device based on the digital signal processor (DSP).

Abstract--This paper presents the impact of changes in distance protection algorithm when performing simplifications in certain calculations. Advancements in digital technology have allowed relay ...

This paper presents a relay protection device, which is based on the DSP technique. Because of high-speed and high performance of the DSP processor, the complicated filter and analysis algorithm can ...

In this paper, three phase transmission power system with three different protective schemes such as over current relay, over and under voltage relay and over and under frequency relay is developed ...

However, the increasing complexity of power systems makes it difficult for protection operation to achieve these objectives. Nevertheless, numerical relays embedded with digital signal processor ...

An embedded relay protection system is presented in this paper. For the high speed and high performance DSP is applied, the complicated algorithm on filtering and analysis can be used in the ...

DSP based Numerical Relay discussed in this paper can discriminate better between above conditions due to their enhanced fault current waveform processing capabilities as compared to ...

Microprocessor-based protective relays have revolutionized power system protection by replacing traditional electromechanical and solid-state relays. These relays utilize Digital Signal ...

This paper is aimed at proposing a multifunction numerical relay (MNR) for protection against over-current, over- and under-voltage and over- and under-frequency.

Undoubtedly, the increasing use of numerical relays owes much to economies that can be made compared to more conventional designs, but it is worth indicating here the technological benefits ...

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