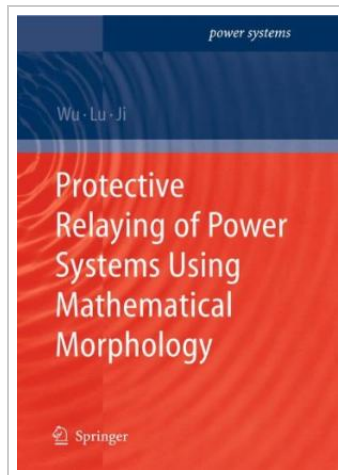




Protective Relaying of Power Systems Using Mathematical Morphology

By Zhen Lu

Springer. Hardcover. Book Condition: New. Hardcover. 207 pages. Dimensions: 9.4in. x 6.3in. x 0.7in. The basic principle of protective relaying of power systems has not changed for more than half a century. Almost all power system protective relaying algorithms are dominated by integral transforms such as the Fourier transform and the wavelet transform. The integral transform can only provide an average attribute of the signals or their components. The accuracy of the attribute extraction is significantly sacrificed by the assumption of periodicity of the signals if the integral transform is applied to transient signals. It is also well known that the signals are liable to be contaminated by noise in the form of exponentially decaying DC offsets, high frequency transients, harmonic distortion, errors caused by non-linearity in the response of the sensors, and unwanted behaviour of power systems. This contamination is often provoked by fault conditions, just at the time when the protection relay is required to respond and trip the circuit breaker to limit damage caused by the fault. On the other hand, as we know, in most protection relays, complex computation has to be undertaken within a sampling interval, no matter how small the interval, to calculate the coefficients relevant to the attributes of the signals by using the integral transform based on a window of samples, and to calculate...



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