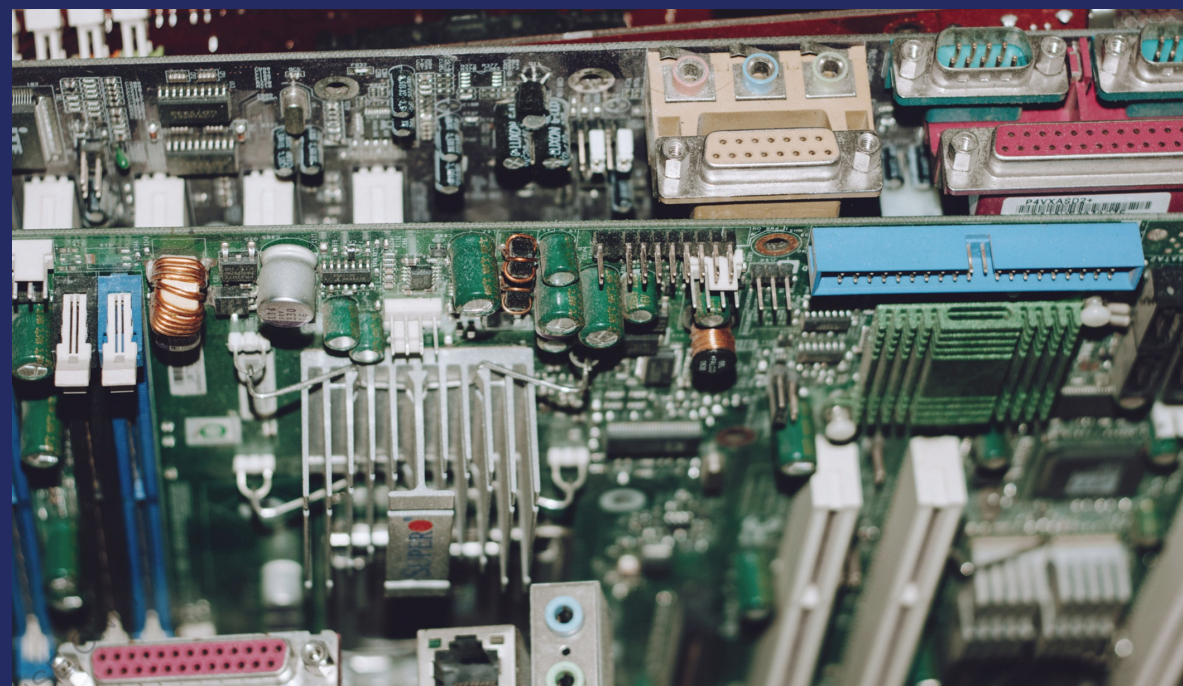


Voltage sag and voltage swell are two of the most important power-quality (PQ) problems that encompass almost 80% of the distribution system PQ problems. Short circuits, starting large motors, sudden changes of load, and energization of transformers are the main causes of voltage sags. According to the definition and nature of voltage sag, it can be found that this is a transient phenomenon whose causes are classified as low- or medium-frequency transient events. In recent years, considering the use of sensitive devices in modern industries, different methods of compensation of voltage sags have been used. One of these methods is using the DVR to improve the PQ and compensate for the load voltage.



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DVR Based Multifunctional Control in Distribution Systems



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