Electric power quality is the degree to which the voltage, frequency, and phase of a power supply system conform to established specifications. Poor power quality can be defined as a steady supply voltage that stays within the specified range, such as: 

- Frequency: The alternating current in the power supply is provided by a machine called a synchronous motor. Synchronous motors are designed to operate at a specific frequency, typically 50 or 60 Hertz. However, changes in the frequency can occur due to power surges or other disruptions.
- Voltage: The voltage supplied by the power grid is usually maintained at a constant level. However, voltage fluctuations can occur due to changes in load, the time of day, or other factors.
- Harmonics: Harmonics are non-sinusoidal waveforms that can be generated by nonlinear loads, such as computer equipment or electric motors. These waveforms can cause problems for sensitive equipment and can also affect the overall efficiency of the power system.

Understanding Power Quality Problems Voltage Sags and Interruptions

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