

### عنوان مقاله:

Analysis and simulation to investigate of reducing the THD of 81-level inverter

### محل انتشار:

کنفرانس بین المللی پژوهش در علوم و تکنولوژی (سال: 1394)

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### خلاصه مقاله:

Recently multilevel inverters (MLI) are gaining popularity due to reduced voltage stress across power switches and low total harmonic distortion (THD) output voltage waveform. So, we can pave a way for omission of higher degree harmonics which also named the change of making key angles by changing the way of making key in the main frequency, or we can decrease the effects of harmonics by providing a topology of multilevel inverters. So by changing in the topology, we could not only use fewer elements, but also we could decrease the harmonics of waveform of outcome and we reached to a desired sinus. In the paper, the multilevel inverters are used for decreasing the harmonics because in essence they intend to have fewer (dv/dt) due to much lower voltages. The introduced concept is analyzed by studies of simulation of 81-levels inverter and it is investigated by experiments and the results of simulation is investigated by MATLAB software

### کلمات کلیدی:

(Multi-Level Inverter; Total Harmonic Distortion; Voltage Distortion (dv , dt

### لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/446535>

