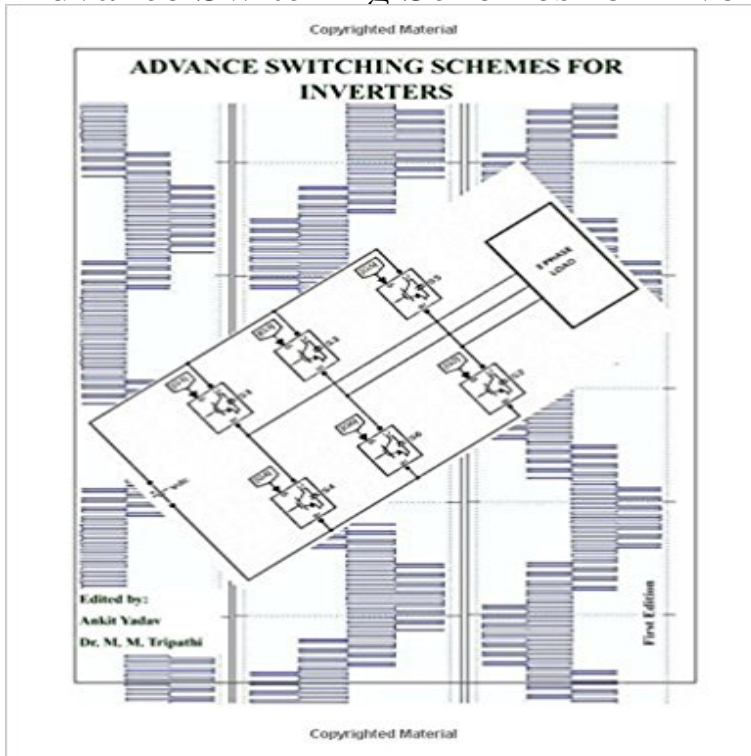


# Advance Switching Schemes for Inverters



DC-AC Inverters are key components in various industrial applications that include power supplies, motor drive systems and power systems. Now-a-days dc-ac inverters (both 1-phase & 3-phase) are finding more attention in renewable energy systems also. These inverters are big source of harmonics, which leads to various other problems like heating of instruments, faulty operation of protection devices etc. The harmonics generated by inverter can be controlled and minimise by controlling the switching of the device. Several approaches has been made already to deal with this problem like as carrier based PWM (pulse width modulation), selected harmonic elimination, Random PWM etc. Some new advance methods such as modified hysteresis switching scheme as well as wavelet based modulation technique would be studied, analysed and applied for switching of single phase and three phase voltage source inverters to produce significantly improved fundamental components and low harmonic contents.

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