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# MODULATION STRATEGY OF MULTILEVEL INVERTER

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## Modulation Strategy Of Mli

Modulation technologies are the most significant factors in modelling and designing of multilevel inverters. The modulation techniques control the inverter operation. There are various types of multilevel modulation techniques are available as shown in figure 8.1. We can categorise these into two groups according to switching frequency such as switching frequency is low and high switching frequency is high. Under low frequency of switching some methods are there, like Selective Harmonic Elimination method, Nearest vector method and Nearest level method etc. In the same way under High Frequency of Switching two types of modulation schemes are there. One is Space Vector Modulation and other one is Multicarrier Pulse Width Modulation technique. This Multicarrier PWM is also two types as Phase Shifted technique and Level Shift technique. The techniques like Phase Disposition PWM, Phase Opposition Disposition PWM and Alternative Phase Opposition Disposition PWM etc. come under the Level Shifted modulation method. A Hybrid modulation method is also investigated which is applicable for both low switching frequency and high switching frequency as well.