

ACRONYMS

AHMLI	Asymmetric Hybrid Multilevel Inverter
AHPWM	Alternative Hybrid Pulse Width Modulation
APODPWM	Alternative Phase Opposition Disposition Pulse Width Modulation
ADC	Analog to Digital Converter
CAN	Controller Area Network
CCS	Code Composer Studio
CHB	Cascaded H Bridge
CM	Common Mode
CMLI	Cascaded Multilevel Inverter
COPWM	Carrier Overlapping Pulse Width Modulation
DCMLI	Diode Clamped Multilevel Inverter
DSC	Digital Signal Controller
DSO	Digital Storage Oscilloscope
DSP	Digital Signal Processor
EPB	Educational Practice Board
EV	Electric Vehicle
FACTS	Flexible Ac Transmission System
FCMLI	Flying Capacitor Multilevel Inverter
FFT	Fast Fourier Transform
GPIO	General Purpose Input Output
GTO	Gate turn off Thyristor
HCMLI	Hybrid Cascaded Multilevel Inverter
HEV	Hybrid Electric Vehicle
HLCCAPOPWM	Higher And Lower Carrier Cells And Alternative Phase Opposition Pulse Width Modulation
HVDC	High Voltage Direct Current
IGBT	Insulated Gate Bipolar Transistor
IGCT	Integrated Gate Commutated Thyristors
ISPWM	Inverted Sine Carrier Pulse Width Modulation
I/O	Input Output
JTAG	Joint Test Action Group
LED	Light Emitting Diode

MC-PWM	Multi Carrier Pulse Width Modulation
MC-SFO PWM	Multi Carrier Switching Frequency Optimal Pulse Width Modulation
MC-SH PWM	Multi Carrier Sub- Harmonic Pulse Width Modulation
MLI	Multilevel Inverter
MOSFET	Metal Oxide Semiconductor Field Effect Transistor
MUX	Multiplexer
MV	Medium Voltage
NPC	Neutral Point Clamped
PDPWM	Phase Disposition Pulse Width Modulation
PODPWM	Phase Opposition Disposition Pulse Width Modulation
PSC-SFO PWM	Phase Shifted Carrier Switching Frequency Optimal Pulse Width Modulation
PSPWM	Phase Shifted Pulse Width Modulation
PS-SUB-PWM	Phase-Shifted Suboptimal Carrier Pulse Width Modulation
PWM	Pulse Width Modulation
SDCS	Separate DC Sources
SHE-PWM	Selective Harmonic Elimination Pulse Width Modulation
SHPWM	Sub Harmonic Pulse Width Modulation
SVPWM	Space Vector Pulse Width Modulation
THD	Total Harmonic Distortion
THIPDPWM	Third Harmonic Injection Phase Disposition Pulse Width Modulation
UART	Universal Asynchronous Receiver/Transmitter
VFISPWM	Variable Frequency Inverted Sine Carrier Pulse Width Modulation
VFPWM	Variable Frequency Pulse Width Modulation
VSI	Voltage Source Inverter
μF	microfarad
$\text{k}\Omega$	Kilo ohm
ma	Amplitude Modulation Index
mf	Frequency Modulation Index