

9/19/24, 4:4

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	▶ ISBN Information:	Conference Location: Greater Noida, India				
	Contents					
	I. Introduction Curiosity in RES has grown in recent years, and so has an interest in technologies that might enhance the flexibility of utilities due to the drive for deregulation of the utilities. In both cases, power electronics systems are acknowledged as a crucial enabling technology. Power-conditioning					
	systems are essential for RES, including wind turbines, solar panels, fuel cells, and microturbines. In addition to interfacing with the utility, these power-conditioning devices adjust the electrical properties of the sources to meet the needs of the loads and/or the utility. The power conditioning					
	system (PCS) design is particularly intriguing since it makes use of MLCs, allowing investigation of the benefits and drawbacks of this kind of power conversion technology. For instance, there is a prevalent trend toward modularizing the hardware design in connection with the widespread					
	adoption of MLC architectures in an effort to lower costs, simplify converter design, and perhaps enhance the accessibility of MLCs. As the no. of levels increases, so does the number of possible switching modes in the converters.					
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