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228 Internal Combustion Engines Chap. 4 2. Compression. The intake valve is closed and the rising piston compresses the fuel-air mixture. Near the top of the stroke, the spark plug is fired, igniting the mixture.

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In the internal combustion engine application, the timing belt connects the crankshaft to the camshaft(s), which in turn controls the opening and closing of the engine's valves. Gear or chain systems can also be used to connect the crankshaft to the camshaft at the correct timing.

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A timing belt is a part of an internal combustion engine that has the function of controlling the timing of the engine's valves. In the early 1990s, the first commercial CPN in automotive applications was developed by Toyota in collaboration with Ube for Toyota Camry cars ( Alexandre and Dubois, 2000 ).

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1 ADVANCED INTERNAL COMBUSTION ENGINE RESEARCH Peter Van Blarigan Sandia National Laboratories Livermore, CA 94550 Abstract In this manuscript, research on hydrogen internal combustion engines is discussed.

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Internal Combustion Engines (IC-engines) produce mechanical power from the chemical energy contained in the fuel, as a result of the combustion process occurring inside the engine

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