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port opens and blowdown occurs shortly compression with both web nov 22 2013 there are two kinds of internal combustion engines currently in production the spark ignition gasoline engine and the compression ignition diesel engine most of these are four stroke cycle engines meaning four piston strokes are needed to complete a cycle web may 1 2018 internal combustion engine fundamentals second edition has been thoroughly revised to cover recent advances including performance enhancement efficiency improvements and emission reduction technologies highly illustrated and cross referenced the book includes discussions of these engines environmental impacts and web this short course provides a fundamental background of spark ignited and compression ignited engines for passenger cars and light duty trucks covering the working principles basic mechanical components geometric and operating parameters thermodynamic processes operations of air fuel and combustion systems along with integration 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