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An internal combustion engine (ICE) is a heat engine in which the combustion of a fuel occurs with an oxidizer (usually air) in a combustion chamber that is an integral part of the working fluid flow circuit. In an internal combustion engine, the expansion of the high-temperature and high-pressure gases produced by combustion applies direct force to the engine.

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Inefficiencies generally occur due to the nature of the combustion engine and its cylinders. Since cylinders fire at different times, exhaust leaves them at different times, and pressure waves from gas emerging from one cylinder might not be completely vacated through the exhaust system when another comes. This creates a back pressure in the exhaust system that can ...

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Amitabh Roy and K.M.Pandey, Numerical analysis of combustion chamber design of turbojet engine with fluent software, national conference on recent advances in mechanical engineering, department of mechanical engineering, NIT Silchar, Assam , December 20-21, 2008, PP 213-217.

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