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Internal Combustion (IC) Engine Simulation Software. Unlike legacy computational fluid dynamics (CFD) tools that solve IC engine problems, Forte rapidly predicts engine ignition and emissions. By incorporating proven ANSYS Chemkin-Pro solver technology — the gold standard for modeling and simulating gas phase and surface chemistry — Forte combines multicomponent fuel models with ...

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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 some component of 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 and restriction in the engine's exhaust system that can ...

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Design team includes IC engine specialists, CAD and CAM application experts, software analysts CAD/CAE, Finite Element Analysis (FEA) Pro-E, Ansys are used for new product development Up to date practices like QFD, design reviews and world acclaimed Japanese development methods implemented across facilities

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A Project on FEA and structural analysis on Aircraft wing by using ANSYS and CFD; Structural analysis of an exhaust manifold of a multi-cylinder engine Analysis of a thin and thick-walled pressure vessel for different materials; A Project on Thermal analysis sheet metal during ultrasonic welding ; Design & analysis of composite over bridge coupling. This is the list of Projects ideas on Finite ...

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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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