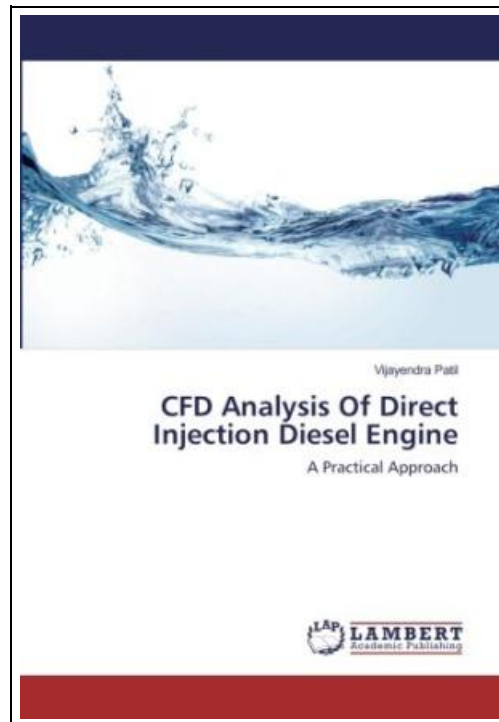


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CFD ANALYSIS OF DIRECT INJECTION DIESEL ENGINE



Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | A Practical Approach | The objective of this work is to calculate the combustion properties of four stroke (DI) diesel engine by numerical approach using CFD package ANSYS Fluent and compare it with Experimental Results. The most widely used CFD package and well known simulation software for variety of engineering applications is Fluent. Experimental analysis will be carried out on a four stroke variable compression Diesel engine for validation with numerical solutions. During Combustion Both the Inlet and Exhaust valves are closed hence, a 3D model is designed without valves. A centrally located fuel injector with a 30° sector model is considered which indicates the combustion chamber of the engine. To reduce the computation time only 30° sector is meshed. The combustion parameter such as pressure, volume, temperature and Heat Release Rate affects the combustion process and operation of the engine. | Format: Paperback | Language/Sprache: english | 128 pp.



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