UNIVERSITAT POLITÈCNICA DE VALÈNCIA

motores térmicos

LBG Valencia

Spring Course 2015:

Warm me up,

my engine is ready!

Prematerials

BEST VALENCIA

Prematerials

The course's objective is to gives a short overview on different aspects of reciprocating internal combustion engines and thus we have selected a number of prematerials needed for the appropriate following of the course. In this document these are listed in relation to the type of document:

- Links:

Name	Reciprocating Internal Combution engines
Topic	I.C. engines
Short description	An overview on general aspects of reciprocating Internal Combustion engines

Name	Classification Of Internal Combustion Engines
Topic	I.C. engines
Short description	A general view on the different applications of the modern internal combustion engines.

Name	Internal Combustion Engines Fundamentals
Topic	I.C. engines
Short description	MIT OCW on internal combustion engines. Highly recommendable to review their lecture notes on combustion, heat transfer and turbocharging.

- Books:

Name	Internal Combustion Engines
Topic	I.C. engines - Combustion
Short summary of the content	An extensive and excellent professional reference text on I.C. engines with an excellent explanation of combustion and heat transfer principles
Chapter	7 – Combustion & 8 – Heat Transfer in IC Engines
Author	Fernando Salazar

Name	Control of Exhaust Emissions from Internal Combution Engined Vehicles
Topic	I.C. engines - Emissions
Short summary of the content	A concise technical text on pollutants and strategies for emission reduction
Chapter	3 - Formation of Pollutants and Their Estimation 3.1 - Internal Combustion Engines
Author	G. Cholakov

Name	Engineering Fundamentals of the Internal Combustion Engine
Topic	I.C. engine – Air Management
Short summary of the content	A complete text covering the fundamentals of I.C. engines, especially recommended to review air management.
Chapter	5,1 – Intake Manifold 5,2 – Volumetric Efficiency of SI Engines 5,6 – Supercharging and Turbocharging
Author	W. Pulkrabek