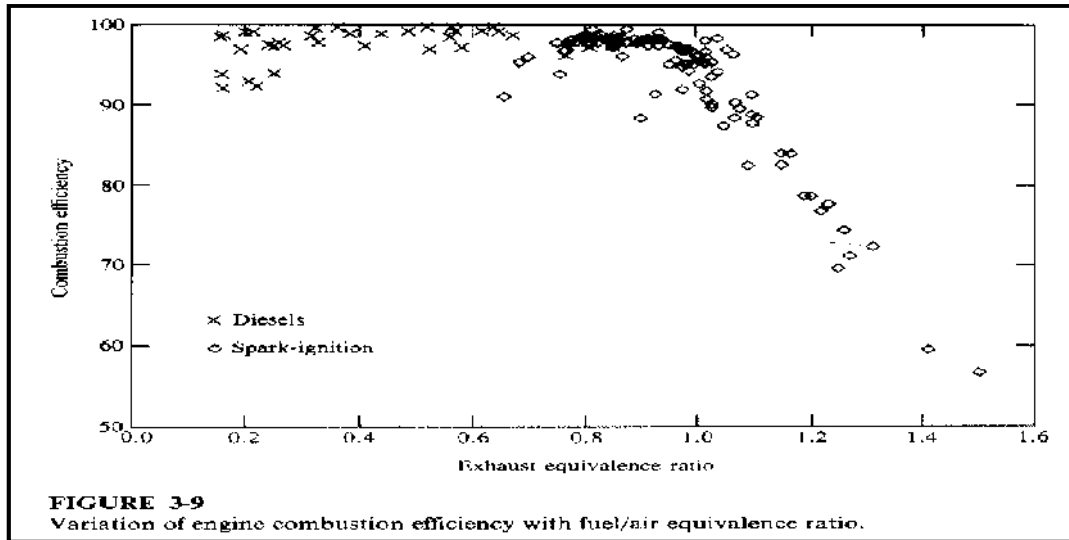


ENGINE PERFORMANCE TUNING



This seminar serves as a comprehensive overview of Motorcycle Engine Performance Tuning. It begins with carbureted AFR tuning, and AFR measurements via wide-band O2 sensors. Compression ratio measurement and calculation is enumerated.

The difference between “fast” and “slow” combustion chambers is covered. Overall power equation is explained with ramifications of each parameter independently. Intake and Exhaust Tuning fundamentals are explained Followed by ignition timing and knock. Finally Valve timing and Bulk Motion are explained in terms of their effect on engine power.

Covered Topics Include:

- AFR control of Carbureted Systems
- Basic Engine Geometry
- Power Equation
- Volumetric Efficiency
- Intake – Exhaust Tuning
- Spark Timing Optimization
- Valve Flows
- Bulk charge motion

