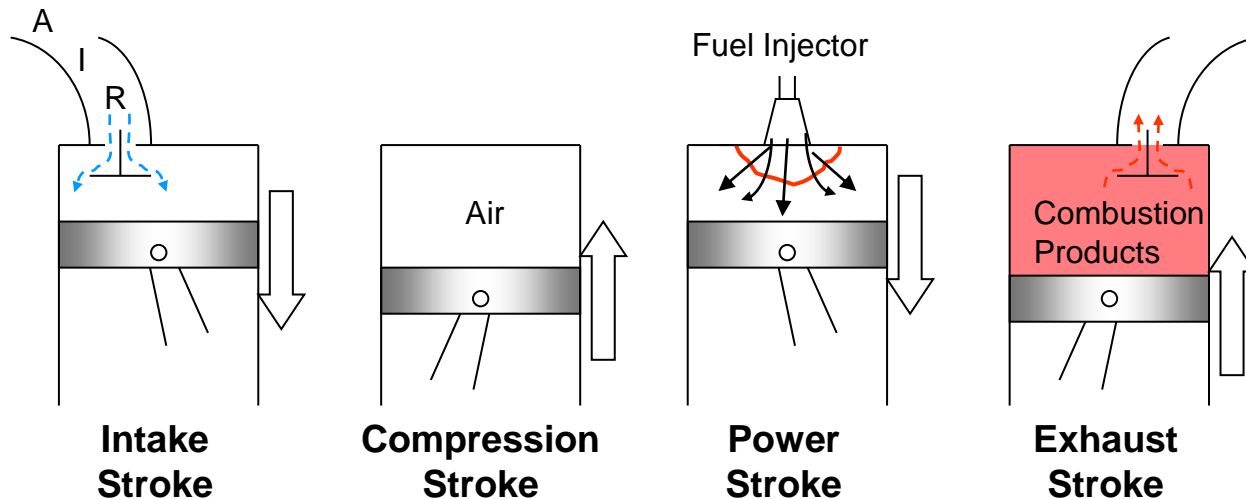
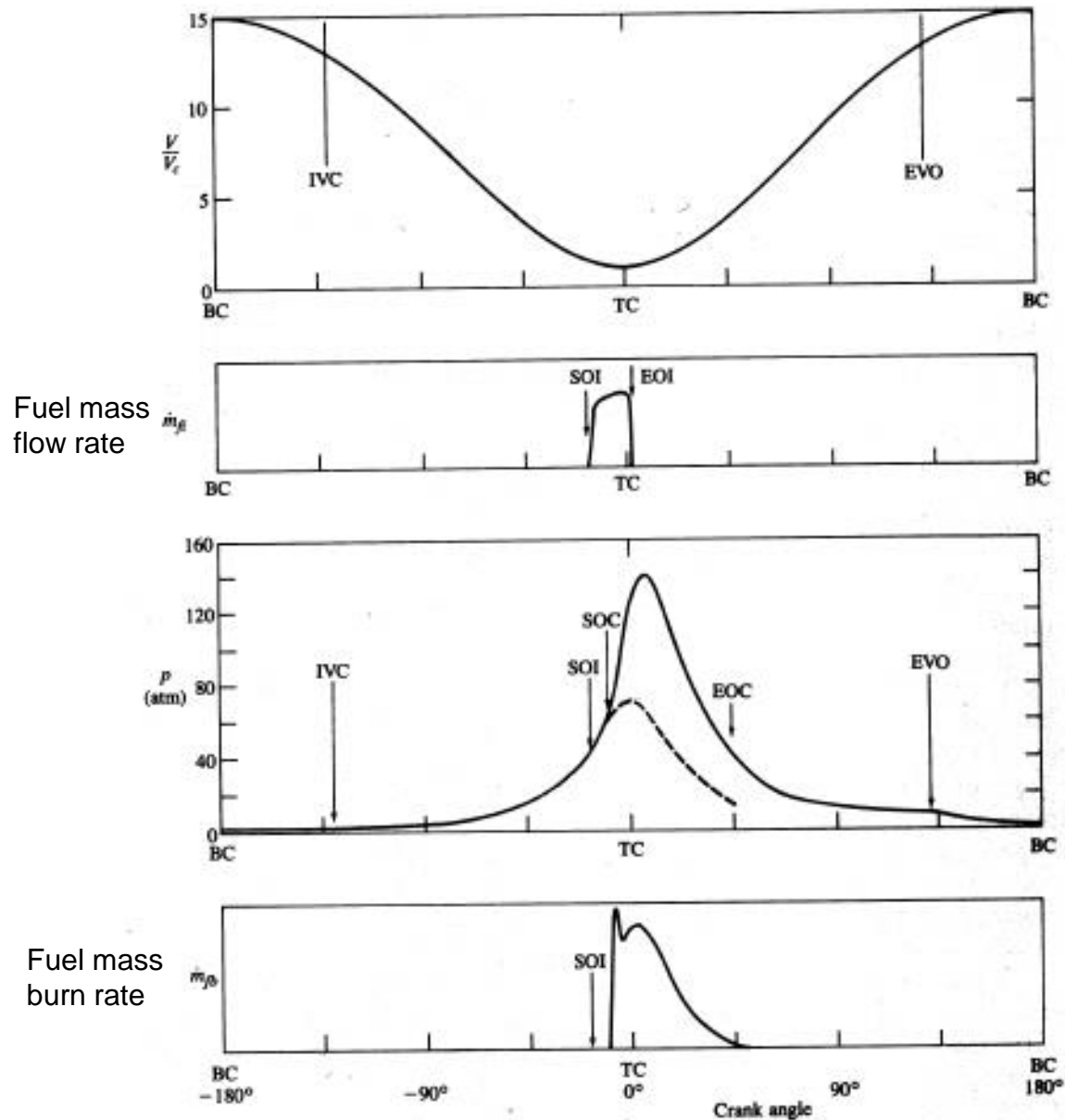


Four Stroke Compression Ignition (CI) Engine

- Stroke 1: Air is introduced into cylinder through intake valve
- Stroke 2: Air is compressed
- Stroke 3: Combustion (roughly constant pressure) occurs and product gases expand doing work
- Stroke 4: Product gases pushed out of the cylinder through the exhaust valve

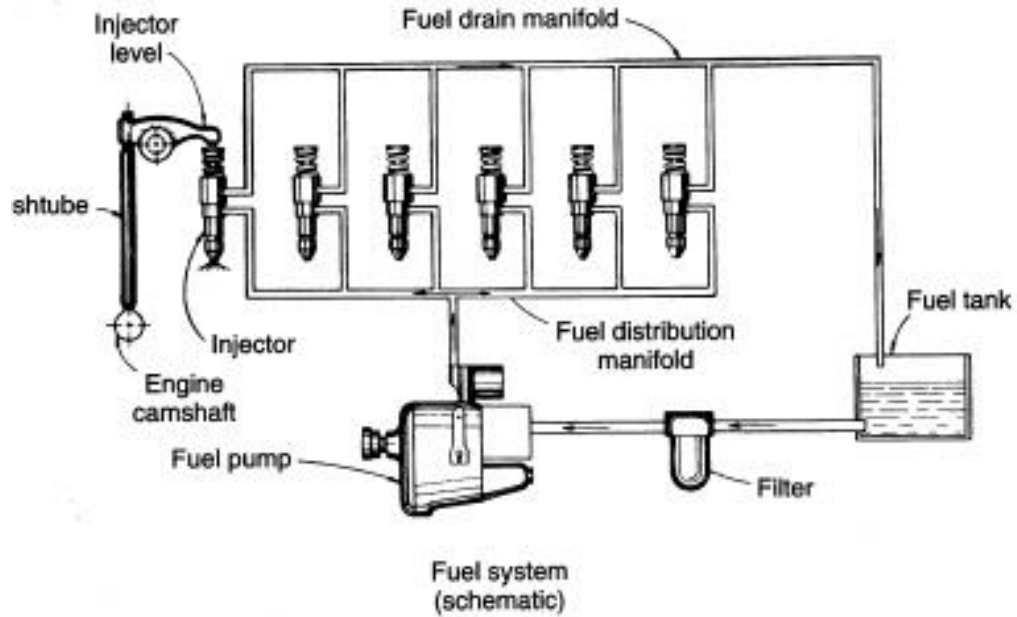


Four-Stroke CI Combustion

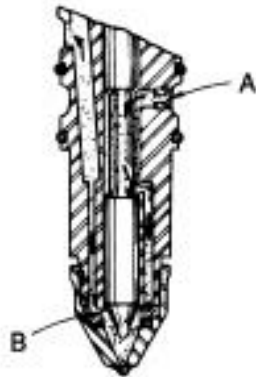


SOI – start of injection
EOI – end of injection
SOC – start of combustion
EOC – end of combustion

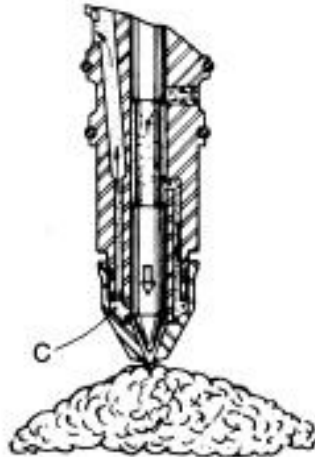
Diesel Fuel Injection System



Metering



Injection



Seating dwell

