

SI Engine Mixture and Combustion

Calculate air to fuel ratio by mass, for a four-cylinder SI engines running on

- i) gasoline and
- ii) a mixture of 20% methanol and 80% gasoline

both at stoichiometric mixtures.

Assume gasoline is represented with C_8H_{18} . Calculate any loss of power when gasoline-methanol mixture is used as a fuel and discuss your results.