



2nd Class • Combustion and Plant Systems

PART B2

End of Chapter Answer Guide: Numerical Answers



CHAPTER 5 - FUELS AND COMBUSTION CALCULATIONS

1. 1 kg of methane + 4 kg of oxygen → 2.75 kg of carbon dioxide + 2.25 kg of water
3. 33 765.61 kJ/kg
5. 11.01 kg of air/kg of coal
7. 275.20 Pa
8.
 - a) 49.83 kW
 - b) 55.58 kW
 - c) 64.71 kW
 - d) 85.89%