

- 1.6** The Space Shuttle Transportation System (SSTS) shown in Fig. E1.5 incorporates three space shuttle main engines (SSME, shown in Fig. E1.6) using liquid hydrogen (LH_2) as the fuel and LOX as the oxidizer in a ratio of 1:6. The heating value of LH_2 is 5 (120 MJ/kg). The thrust produced by each engine in near-vacuum conditions of the upper atmosphere is (2.28 MN) at a specific impulse of 454 s. The typical burn time for the engines is 8.5 min. Determine the following: (a) effective exhaust velocity of the engine, (b) weight flow rate of fuel and of oxidizer for the engine, (c) total weight of the fuel and oxidizer required for the cluster of three engines, (d) volume for the fuel and oxidizer tanks, (e) length of the fuel and oxidizer tanks, assuming they are cylinders equal to the (46.9 m) long space shuttle external tank, and (f) overall efficiency η_o at a flight speed of (1.83 km/s).

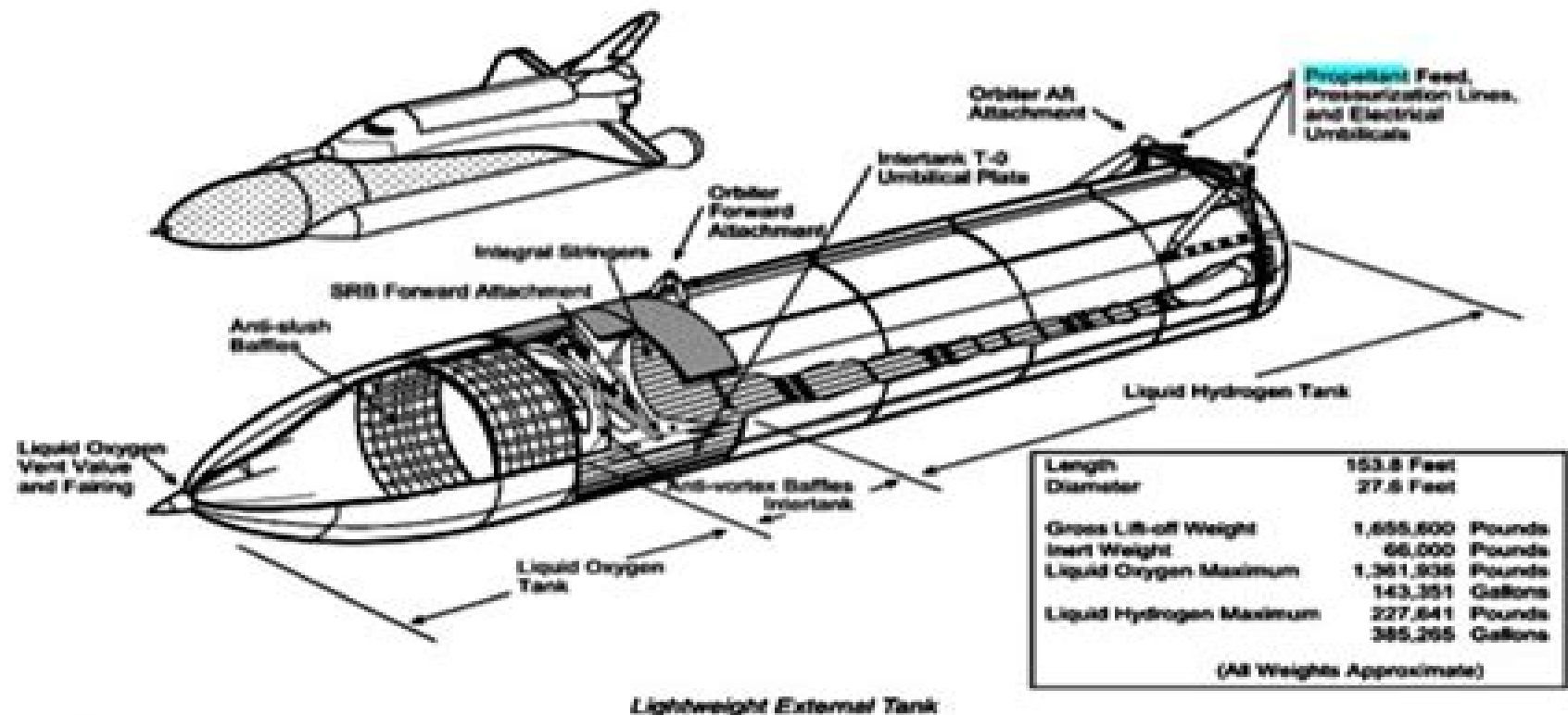


FIGURE E1.5

The Space Shuttle Transportation System (SSTS) incorporates the Space Shuttle Orbiter, the large external tank, and two integrated solid rocket boosters.

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