

## CEE 483: Additional notes on reading assignments

**Note #1:** On p.303, near the bottom, there are four calculations for the fractional removals in the example system. The first of those four equations appears to be incorrect. It should be:

$$\frac{138}{180}(50 - 40) = 7.7$$

where the value 138 is computed as  $(95 + 180)/2$ . The logic is that 50% of the particles have fallen at least 95 cm, and 40% have fallen at least 180 cm, so 10% have fallen between 95 and 180 cm. We therefore assume that the particles represented by that 10% of the total all fell, on average, 138 cm. The value of  $\eta$  for that group of particles is therefore  $138/180$ , or 0.766.

**Note #2:** On p.364-373, I'm mainly interested in you getting a feel for the different types of aeration systems in use, not the details of the calculations in this section.