

50. Since the fields involved are uniform, the precise location of  $P$  are not relevant. Since the sheets are oppositely charged (though not equally so), the field contributions are additive (since  $P$  is between them). Using Eq. 24-13, we obtain

$$\vec{E} = \frac{\sigma_1}{2\varepsilon_0} + \frac{3\sigma_1}{2\varepsilon_0} = \frac{2\sigma_1}{\varepsilon_0}$$

directed towards the negatively charged sheet.