For the reaction

$$A + B \overset{k_a}{\rightleftharpoons} AB \tag{1}$$

we can calculate k_d as follows:

$$\frac{[A][B]}{[AB]} = \frac{1}{k_a} = k_d \tag{2}$$

Using

$$[A_0] = [A] + [AB] \tag{3}$$
$$[B_0] = [B] + [AB] \tag{4}$$

we rewrite eqn 2 so that it can be solved with the square (ABC) formula:

$$\frac{([A_0] - [AB])([B_0] - [AB])}{[AB]} = k_d \tag{5}$$
$$[A_0][B_0] - [AB]([A_0] + [B_0]) + [AB]^2 = k_d[AB] \tag{6}$$
$$[AB]^2 - [AB]([A_0] + [B_0] + k_d) + [A_0][B_0] = 0 \tag{7}$$

Percentage bound is:

$$\frac{[AB]}{[A_0]} \cdot 100\% \tag{8}$$