Primjer 62 - kuponska obveznica

$i = 5\%$
$t = 12$
$N = 100$
$k_b = 8\%$

$B_0 = ?$

$I_t = N \cdot i = 5$

$B_0 = I_t \cdot IV_k^t + N \cdot II_k^t$

$B_0 = 5 \cdot 7,536 + 100 \cdot 0,397$

$B_0 = 77,38$

Primjer 63 - kuponska obveznica

$i = 10\%$
$N = 1000$
$t = 8$
$B_0 = 1200$

$\Big\} I_t = 100$

a) $k_b = ?$

$$k_b \approx y = \frac{I_t + \frac{N - B_0}{t}}{0,6\,B_0 + 0,4 \cdot N}$$

$$k_b \approx y = \frac{100 + \frac{1000 - 1200}{8}}{0,6 \cdot 1200 + 0,4 \cdot 1000}$$

$k_b \approx y = 0,0669 = 6,70\%$

b) $k_b = ?$

$y_1 = k_{b1} = 6\%$
$y_2 = k_{b2} = 7\%$

$x_1 = B_{01} = 100 \cdot 6,210 + 1000 \cdot 0,627 = 1248$
$x = B_0 = 1200$
$x_2 = B_{02} = 100 \cdot 5,971 + 1000 \cdot 0,582 = 1179,1$

$$y(k_b) = y_1 + \frac{y_2 - y_1}{x_2 - x_1}(x - x_1)$$

$$y(k_b) = 6 + \frac{7 - 6}{1179,1 - 1248}(1200 - 1248)$$

$y(k_b) = 6,6967\%$