

(they follow the relation 
$$P = \frac{\mp}{(1+J(i))^i}$$
)

Session 7 Sep. 28, 2022

Suppose the S(i) are given by some standard, say, in the US the US-treasury zero-coupon bonds, then a better level-coupon bond price formula would be

$$T = \sum_{i=1}^{n} \frac{C}{(1+S(i))^{i}} + \frac{T}{(1+S(i))^{n}} \qquad (m=1 \text{ here})$$

note: d(i) = 1. are called discourt factors.

note: visky bounds should be cheaper, this is often taken into account by adding a "static spread" 
$$S$$
:  $(1+S(i))^{-i} \longrightarrow (1+S+S(i))^{-i}$ 

Side remark: there is also the concept of forward rates:

consider 0 - corpor bond  

$$FV_{i} = P(1+S(i))^{i}$$

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$$=>FV_{i} = FV_{i}(1+S(i,j))^{j-i}$$

$$=P(1+S(i))^{i}(1+S(i,j))^{j-i}$$

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$$S(i,j) = (j-i) - period spot rate i periods from now (whenow)$$

$$( there are many models for S(i,j))$$

Sometimes the simple model of (implied) formand rates is used:  

$$f(i,j) = model \text{ for } S(i,j) \text{ based on}$$

$$(1 + S(i))^{\tilde{s}} = ((+ S(i))^{\tilde{i}} (1 + f(i,j))^{\tilde{s}-i}$$

$$=> f(i,j) = \left(\frac{(1 + S(i))^{\tilde{i}}}{((+ S(i))^{\tilde{i}}}\right)^{\frac{1}{s-i}} - 1$$