

















Example 8	.1			
Yields for Differe	ent Maturities			
<b>Problem</b> Suppose the followin face value. Determine	g zero-coupon b e the correspondi	onds are trading ng yield to matur	at the prices sho rity for each bond	wn below per \$100 d.
Maturity	1 year	2 years	3 years	4 years
Price	\$96.62	\$92.45	\$87.63	\$83.06
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Example 8.1	(cont'd)	
<b>Solution</b> Using Eq. 8.3, we have	$YTM_{1} = (100 / 96.62) - 1 = 3.50\%$ $YTM_{2} = (100 / 92.45)^{1/2} - 1 = 4.00\%$ $YTM_{3} = (100 / 87.63)^{1/3} - 1 = 4.50\%$ $YTM_{4} = (100 / 83.06)^{1/4} - 1 = 4.75\%$	
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TABLE 8.1	Bond P	rices Immediately After a Co	oupon Payment	
When the bond pr	ice is	greater than the face value	equal to the face value	less than the face value
We say the bond to	rades	"above par" or "at a premium"	"at par"	"below par" or "at a discount"
This occurs when		Coupon Rate > Yield to Maturity	Coupon Rate = Yield to Maturity	Coupon Rate < Yield to Maturity



































TABLE 8.4	Bond Ratings	
Moody's	Standard & Poor's	Description (Moody's)
Investment Gra	de Debt	
Aaa	AAA	Judged to be of the best quality. They carry the smallest degree of investment risk and are generally referred to as "gilt edged." Interest payments are protected by a large or an exceptionally stable margin and principal is secure. While the various protective elements are likely to change, such changes as can be visualized are most unlikely to impair the fundamentally strong position of such issues.
Aa	AA	Judged to be of high quality by all standards. Together with the Aaa group, they constitute what are generally known as high-grade bonds. They are rated lower than the best bonds because margins of protection may not be as large as in Aaa securities or fluctuation of protective elements may be of greater amplitude or there may be other elements present that make the long-term risk appear somewhat larger than the Aaa securities.
А	А	Possess many favorable investment attributes and are considered as upper-medium-grade obligations. Factors giving security to principal and interest are considered adequate, but elements may be present that suggest a susceptibility to impairment some time in the future.
Baa	BBB	Are considered as medium-grade obligations (i.e., they are neither highly protected nor poorly secured). Interest payments and principal security appear adequate for the present but certain protective elements may be lacking or may be characteristically unreliable over any great length of time. Such bonds lack outstanding investment characteristics and, in fact, have speculative characteristics as well.
		(continues)

ond R	atings (o	cont'd)
TABLE 8.4	Bond Ratings	(continued)
Moody's	Standard & Poor's	Description (Moody's)
Speculative Bon	ıds	
Ba	BB	Judged to have speculative elements; their future cannot be considered as well assured. Often the protection of interest and principal payments may be very moderate, and thereby not well safeguarded during both good and bad times over the future. Uncertainty of position characterizes bonds in this class.
В	В	Generally lack characteristics of the desirable investment. Assurance of interest and principal payments of maintenance of other terms of the contract over any long period of time may be small.
Caa	CCC	Are of poor standing. Such issues may be in default or there may be present elements of danger with respect to principal or interest.
Ca	CC	Are speculative in a high degree. Such issues are often in default or have other marked shortcomings.
С	C, D	Lowest-rated class of bonds, and issues so rated can be regarded as having extremely poor prospects of ever attaining any real investment standing.
Source: www.moodys	.com.	



