

CHAPTER 16: MANAGING BOND PORTFOLIOS

PROBLEM SETS

- While it is true that short-term rates are more volatile than long-term rates, the longer duration of the longer-term bonds makes their prices and their rates of return more volatile. The higher duration magnifies the sensitivity to interest-rate changes.
- Duration can be thought of as a weighted average of the "maturities" of the cash flows paid to holders of the perpetuity, where the weight for each cash flow is equal to the present value of that cash flow divided by the total present value of all cash flows. For cash flows in the distant future, present value approaches zero (i.e., the weight becomes very small) so that these distant cash flows have little impact, and eventually, virtually no impact on the weighted average.

- The percentage change in the bond's price is:

$$-\frac{\text{Duration}}{1+y} \times \Delta y = -\frac{7.194}{1.10} \times 0.005 = -0.0327 = -3.27\% \text{ or a } 3.27\% \text{ decline}$$

- a. YTM = 6%

(1) Time until Payment (years)	(2) Cash Flow	(3) PV of CF (Discount rate = 6%)	(4) Weight	(5) Column (1) × Column (4)
1	\$60.00	\$56.60	0.0566	0.0566
2	\$60.00	\$53.40	0.0534	0.1068
3	\$1,060.00	\$890.00	0.8900	2.6700
	Column Sums	\$1,000.00	1.0000	2.8334

Duration = 2.833 years

Chapter 16 Managing Bond Portfolios

Tobias Bleicker



Chapter 16 Managing Bond Portfolios:

Bond Portfolio Management Frank J. Fabozzi, 2001-11-09 In *Bond Portfolio Management* Frank Fabozzi the leading expert in fixed income securities explains the latest strategies for maximizing bond portfolio returns Through in depth discussions on different types of bonds valuation principles and a wide range of strategies *Bond Portfolio Management* will prepare you for virtually any bond related event whether your working on a pension fund or at an insurance company Key topics include investment objectives of institutional investors general principles of bond valuation measuring interest rate risk and evaluating performance *Bond Portfolio Management* is an excellent resource for anyone looking to master one of the world s largest markets and is a perfect companion to Fabozzi s successful guide *The Handbook of Fixed Income Securities*

EBOOK: Investments - Global edition Zvi Bodie, Alex Kane, Alan Marcus, 2014-03-16 We are pleased to present this Global Edition which has been developed specifically to meet the needs of international investment students A market leader in the field this text introduces major issues of concern to all investors and places emphasis on asset allocation It gives students the skills to conduct a sophisticated assessment of watershed current issues and debates Bodie Investments blend of practical and theoretical coverage combines with a complete digital solution to help your students achieve higher outcomes in the course

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