

Answer of Bond Valuation

1. A 5-year bond with a coupon rate of 4% has a face value of \$1000. What is the annual interest payment?

Solution:

Face value= 1000
n= 5 years
Coupon rate= 4%
Pmt= ?

Pmt= Face value * coupon rate=
Pmt= 1000 * 4%=
Pmt= 40

2. A 3-year bond with 10% coupon rate and \$1000 face value yield to maturity is 8%. Assuming annual coupon payment, calculate the price of the bond.

Solution:

Face value= 1000
n= 3 years
Coupon rate= 10%
YTM= 8%
Price = ?

Price =
= Pmt x $\left(\frac{1 - (1+i)^{-n}}{i}\right) + \text{Face Value } (1+i)^{-n}$
Price =
= 100 x $\left(\frac{1 - (1+0.08)^{-3}}{0.08}\right) + 1000 (1+0.08)^{-3}$
Price =
= 100 x 2.58 + 793.83
Price =
= 257.7 + 793.83
Price =
= \$ 1,051.54

3. A 10-year bond with 12.5% coupon rate and \$1000 face value yield to maturity is 14.5%. Assuming annual coupon payment, calculate the price of the bond.

Solution:

Face value= 1000
n= 10 years
Coupon rate= 12.5%
YTM= 14.5%
Price= ?

Price= Pmt x $\left(\frac{1 - (1+i)^{-n}}{i}\right) + \text{Face Value } (1+i)^{-n}$

Bond Valuation Questions And Answers

Thomas Griffiths



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Table of Contents Bond Valuation Questions And Answers

1. Understanding the eBook Bond Valuation Questions And Answers
 - The Rise of Digital Reading Bond Valuation Questions And Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Bond Valuation Questions And Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Bond Valuation Questions And Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bond Valuation Questions And Answers
 - Personalized Recommendations
 - Bond Valuation Questions And Answers User Reviews and Ratings
 - Bond Valuation Questions And Answers and Bestseller Lists
5. Accessing Bond Valuation Questions And Answers Free and Paid eBooks
 - Bond Valuation Questions And Answers Public Domain eBooks
 - Bond Valuation Questions And Answers eBook Subscription Services
 - Bond Valuation Questions And Answers Budget-Friendly Options

6. Navigating Bond Valuation Questions And Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Bond Valuation Questions And Answers Compatibility with Devices
 - Bond Valuation Questions And Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bond Valuation Questions And Answers
 - Highlighting and Note-Taking Bond Valuation Questions And Answers
 - Interactive Elements Bond Valuation Questions And Answers
8. Staying Engaged with Bond Valuation Questions And Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bond Valuation Questions And Answers
9. Balancing eBooks and Physical Books Bond Valuation Questions And Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bond Valuation Questions And Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Bond Valuation Questions And Answers
 - Setting Reading Goals Bond Valuation Questions And Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Bond Valuation Questions And Answers
 - Fact-Checking eBook Content of Bond Valuation Questions And Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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