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Chapter 4 (Chapter 5 in the Textbook)

Financial Forwards and Futures

always learning PEARSON



Points to note

- 1. Alternative ways to buy a stock, see P. 4 to 5.

- 3. Pricing forwards on stock, see P. 18 to 20.

 VS forward

 4. Creating a synthetic forward
- 5. Synthetic forwards in market-making and arbitrage, see P. 26 - 28
- 6. An interpretation of the forward pricing formula, see P. 29 -30.
- 7. Future contracts, see P. 31 34.
- Future contracts marking to market, see P. 35 41. between Comparing futures and forward price.
- 9. Comparing futures and forward prices, see P. 42 43. Toyuard
- 10. Quanto Index Contracts, see P. 44 46.

Fo,7 = FV (Fo,7) Synthetic forward (cost) 1) call and put options (Chepter 3)

[Call (K,T) - Put (K,T) = PV (Fo,T - K) Synthetic forward (delivery price = 1C) K may not be 'fair' (off-war bet forward) 2) from the payoff (ST - K) using underlying Stock + zero-compor bord [ending => Long Jaro-coupon bond borrowing (Short Jero-coupon

synthetic forward payoff = ST - 10 Non. divident paying stock .payoff = ST - So erT =+ST + ((-50 ert) 1 unit of Stock > 1 mit of stock Long 1 mit of Stock borrow \$ So (Short Zero-coupon bond with face value = SoCrT

continuous dividend paying stock (divident yield = 8) (c+s) ナニて 420 1 unit of stock Long e - 87 mits afstock - (So e-ST) erT borrow \$500 -ST St - Soe (r-8)T 0