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Problem 5
Since the usA has a interest rate of 0,25%, while grane have or.
it means that the dollar will depreaciate in value. Thus the guture
spot rate should be ligher not lower than the current rate.
The formary rate should be,
 F = 1,0904. 20,025,0.25 = (,04105
This created arbitrage
Arbitrage strategy
y Berrew (HF at OY. rate
2. Convert CHF to USD
3. lavest WD in Us bonds 0,25% per curve for 3 acaths 4. Entir forward contract to buy cff at 1,03 in 3 menths
Example:
1, Barren (000, coo CHF
2. Convert (HF to USD: (040400 USD)
3. USD matrify: 1,040, 400, 625.0257 = 1,041,050
1. Buy formand at 1,010,000 (HF for 1030, cec USI)
AT 3 months. USC USD to forfill formers contract
then oction 1,000,000.
Net prefit: 1041,050 - 1030,000 =$11.050
For the other case wher the formers rate is 1,0500. The future
sput rate is higher than Hearchical
 Arbitiuge stratugg
    7. Borrow USD
    2. Correct USD to COFF
    3 In eves I hald
    4; Formar contract to sall 1, 6500 USD/LHF in 3 months
  E Xnap/1
    1. Poisen 1, c40, 4 cc USD at CRE5%.
    4. Forward contract @ 1,0500
    5, Sell,
        USIS Mutrity.
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1, c==, ccc · 1, -5 = 1, c5 c, cc · USI) Repay loan 1,040400. 6,025.0,25 Not profit = 1,050,000, 1,041,050 = 8950 WD