David Blake

FINANCIAL MARKET ANALYSIS
Second Edition

Addenda and Corrigenda

Last updated: 22nd December 2000

Important Notices

1. The format of amendments in this document is, in most cases, identical to that of the book, so significant amendments can usually be physically cut and pasted if required.

2. This is the final issue of the document amd-1.pdf.

3. The changes listed here will be incorporated into the second impression of the book, which will be published in 2001. The second impression will also incorporate other, minor corrections that are not of sufficient significance to be listed in this document.

4. Earlier issues of this document included amendments to page 628 that have been largely rescinded. Please note that:
   (a) The only change on this page is that equation (16.28) uses the absolute value of option delta.
   (b) For the convenience of those who have already amended the book, we include ‘restored’ versions of the earlier amendments, which may be cut and pasted if necessary.

5. The amendment to Exercise 30 on page 649 that appeared in earlier issues of this document was incomplete. A revised version in included herein.

6. If it becomes necessary to make further amendments to the book, these will appear in amd-2.pdf, which will be available from the usual sources. Thus:
   (a) Those with the first impression of the book will need both this document and amd-2.pdf (if implemented).
   (b) Those with the second impression will need only amd-2.pdf (if implemented).

Pages 44, 45 & 49  On line 35 of page 44, in Figure 1.7 on page 45 and on the last line of page 49, the year of enactment for the Financial Services and Markets Act should be 2000, not 1999.

Page 102  Equation (3.38) should read:

\[ rT = \log_e(F/P); \]  \hspace{1cm} (3.38)
Money market deposits (MMDs) are fixed-interest, fixed-term deposits of up to one year with banks. The deposits can be for the following terms: overnight, 1 week, or 1, 2, 3, 4, 5, 6, 9 or 12 months. They are not negotiable so cannot be liquidated before maturity. The interest rates on the deposits are fixed for the term and are related to LIBID of the same term. For example, the 1-month deposit rate could be 1-month LIBID less 0.125 per cent. The interest and capital are paid in one lump sum on the maturity day. Therefore the amount of interest due at the end of the period is calculated according to the formula for simple interest:

On 15 February, the depositor would get back £1,007,856.16. The effective rate of interest (re) on the

1  On 10 May you open a 2-month money market deposit paying 8.75 per cent with £5,000,000. What is the maturity value of the deposit?

Page 138  Equation (5.21) should read:

\[
P_d = \frac{d + (\theta_1 - B_1)}{(1 + rel)} + \frac{d + (\theta_2 - B_2)}{(1 + rel)^2} + \cdots + \frac{d + (\theta_T - B_T)}{(1 + rel)^T}.
\]

Page 139  The paragraph immediately preceding Example 5.5 should read:

It is also important to take into account any rebasing of the RPI. The two relevant bases are January 1974 = 100.0 and January 1987 = 100.0, the latter representing a rebasing from the 1974-base value of 394.5.

Page 146  Equation (5.34) should read:

\[
(1 + rs_t)^T = (1 + 0rf_1)(1 + 1rf_2)\ldots(1 + T-1rf_t).
\]

Page 163  Equation (5.56) and the following (un-numbered) equation should be as follows:

\[
BPV = \frac{MD \cdot Pd}{10000}.
\]
The first calculation in Example 5.9 should be as follows:

\[
C = \frac{10}{100} \left[ \frac{2}{(1.1)^3} + \frac{6}{(1.1)^4} + \frac{12}{(1.1)^5} \right] + \frac{100}{100} \left[ \frac{12}{(1.1)^5} \right] = 8.76. 
\]

In Exercise 3, part a) should be amended so that the exercise reads as follows:

3 Consider a UK government bond with a 9.25 per cent coupon. The bond is trading at £95.50 per £100 nominal. How much will an investor have to pay for the bond if he buys it:
   a) 3 days following the ex dividend date?
   b) 7 days following the ex dividend date?
   c) 100 days following the ex dividend date?

The second footnote to Table 6.3 should read:

\[ b \] 30% = min\{50\%, 30\% \}

Table 6.4 should be amended as follows:

| Gross dividend yield (%) \( i \) | 3.91 | 14.06 |

\[ i \] Firm A: 3.13\% \times 100/80 = 3.91\%. Firm B: 11.25\% \times 100/80 = 14.06\%.

The first line should read:

\[
P_0 = d_0(1 + h) \cdot \left[ \frac{(1 + h)^T - 1}{h} \right] + \frac{1}{(1 + r)^{T}} \cdot \frac{d_0(1 + g)^T(1 + g)}{(r - g)}
\]

The data table in Example 6.2 should read:

<table>
<thead>
<tr>
<th>Year</th>
<th>Growth rate ( g )</th>
<th>Bottom-up method ( (%) )</th>
<th>Top-down method ( (%) )</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>( g_1 )</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>( g_2 )</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>3(\rightarrow\infty )</td>
<td>( g )</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

The entry for Rutterford, J. should be amended to read:

Exercise 1 should read as follows:

1 Can share valuation models help us determine whether or not dividend policy affects share prices?

In the first paragraph of Section 7.1.1, the word ‘always’ should be deleted from the sixth line so that the paragraph reads as follows:

In terms of quoting the spot price of foreign currency, most countries use direct quotation which expresses the number of units of the domestic currency that can be exchanged for one unit of a foreign currency, e.g., £0.625 per $ or DM1.39 per $. Sometimes, however, indirect quotation is used and this method expresses the number of units of a foreign currency that can be exchanged for one unit of domestic currency, e.g., $1.60 per £ or $0.72 per DM. Sterling is, by convention, quoted using this latter method. Whichever method is used, the foreign currency involved is usually the US dollar, so that with direct quotation, we get the domestic currency price of the dollar, while with indirect quotation, we get the dollar price of domestic currency.

The last sentence of the third paragraph should be amended to read as follows:

arbitrageur does, however, face execution risk, the risk that he buys sterling at 1.5963 from Bank A but Bank B changes its quote to, say, 60–65 before the arbitrageur is able to sell off the sterling to it: the arbitrageur would make a loss of three pips per pound in this case.

The first line of the final paragraph should read as follows:

To illustrate this, we can consider the following example. A UK-based investor has the choice of

Line following the calculation ‘0.7089407[1 + (0.05875/4)] = $0.7193533.’ should read:

The bank would need a three-month forward bid exchange rate for dollars of at most DM1.3901 per

The calculation of the effective return should be:

\[ re = \left( \frac{1.125}{1.20} \right)^{365/20} - 1 \cdot 100 \]
\[ = 758.1\% \text{ p.a.} \]
The second footnote to Table 8.5 should read:

\[ b \] For the purpose of the contract, Bund means ‘Anleihe der Bundesrepublik Deutschland’.

In Table 8.9, the tick value should be £5, not £10.

The tick size on the last line of Exercise 6 is incorrect. The extract from that contract specification should read as follows:

<table>
<thead>
<tr>
<th>Contract</th>
<th>FTSE 100 stock index contract</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contract size</td>
<td>£10 per full index point</td>
</tr>
<tr>
<td>Tick size</td>
<td>0.5</td>
</tr>
</tbody>
</table>

The information regarding exercise price intervals that follows Table 9.4 should be amended as follows:

The exercise price interval (see Table 9.1) differs for different shares, ranging from 5p for share prices up to 50p, to 200p for share prices in excess of 4000p. There are also position limits on the number

The y-axis label in Figure 9.14 should read ‘Probability’.

The variance of the security price should be:

\[
\text{Var}(P^S_T) = q[uP^S - E(P^S_T)]^2 + (1 - q)[dP^S - E(P^S_T)]^2
\]

\[
= 0.5(66 - 50)^2 + 0.5(34 - 50)^2 = 256.
\]

The line immediately following equation (9.31) should read:

where \( \Phi \) is the conditional probability that the option expires in the money, \( E \left[ (P^S_T - X) \mid P^S_T > X \right] \) is

Equation (9.34) should read:

\[
E \left[ (P^S_T - X) \mid P^S_T > X \right] = \left. P^S e^{rT} N(d_1) \right/ \left. N(d_2) \right) - X
\]

(9.34)

Line 4 should read:

value of the option at the end of year 1, in the case where the option is not exercised, is found by
Page 344  The entry for Magrabe (1978) should be amended to read (trivial):


Page 356  The text immediately following Figure 10.9 should be amended as follows:

incurred in maintaining the straddle as of the same date. But the three-month borrowing cost of 7.90 per cent p.a. is identical to the sale of a September Treasury bill for 98.05 (i.e., \(100/[1 + 0.079(92/365)]\)). So a long June–September long gilt straddle is equivalent to the sale of a synthetic September Treasury bill future which is a three-month loan at the Treasury bill rate (transaction DA).

Page 377  Equation (10.11) will be clearer if it is amended as follows:

\[
P_c = \frac{\tau B}{1 + \tau \cdot r_f} \cdot e^{-r_f T} \cdot [r_f \cdot N(d_1) - r_x \cdot N(d_2)],
\]

(10.11)

where:

\[
d_1 = \frac{\ln(r_f/r_x)}{\sigma_f/\sqrt{T}} + \frac{1}{2} \sigma_f/\sqrt{T};
\]

\[
d_2 = d_1 - \sigma_f/\sqrt{T};
\]

and:

\[
\tau = \text{rate-setting frequency (e.g. quarterly)};
\]

\[
T = \text{length of time from beginning of cap to payment date of caplet}.
\]

Page 415  In line 18, delete 'valuation' and insert 'directional'.

Page 417  The table in Example 12.1 should read:

<table>
<thead>
<tr>
<th>Day</th>
<th>Action</th>
<th>Futures price</th>
<th>Initial margin (£)</th>
<th>Variation margin (£)</th>
<th>Net profit (£)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Buy 1 contract</td>
<td>90.50</td>
<td>-500.00</td>
<td>0</td>
<td>-500.00</td>
</tr>
<tr>
<td>2</td>
<td>Hold</td>
<td>90.00</td>
<td>-</td>
<td>-625.00</td>
<td>-1125.00</td>
</tr>
<tr>
<td>3</td>
<td>Hold</td>
<td>90.25</td>
<td>-</td>
<td>+312.50</td>
<td>-812.50</td>
</tr>
<tr>
<td>4</td>
<td>Hold</td>
<td>90.75</td>
<td>-</td>
<td>+625.00</td>
<td>-187.50</td>
</tr>
<tr>
<td>5</td>
<td>Sell 1 contract</td>
<td>91.25</td>
<td>+500.00</td>
<td>+625.00</td>
<td>937.50</td>
</tr>
</tbody>
</table>
Equation (12.2) should be amended to read as follows:

$$\Delta P^f = \frac{1}{PF_{CTD}} \cdot \Delta P_{CTD},$$

(12.2)

where:

$$\Delta P^f = \text{change in the price of the long gilt future;}$$

$$\Delta P_{CTD} = \text{change in the price of the CTD bond.}$$

The definition of $BPV$ is incorrect (see amendment to page 163). Equations and text on this page should be amended as follows:

$$BPV = \Delta P = \frac{MD \cdot P_d}{10,000}.$$  \hspace{1cm} (12.6)

For the gilt we have $BPV_g = 0.11473$, while for the Bund we have $BPV_b = 0.06658$. This shows that the price of the gilt is 72 per cent more responsive to a parallel yield curve shift than the price of the Bund.

The futures price responds to changes in the CTD bond as follows:

$$\Delta P^f = \frac{1}{PF_{CTD}} \cdot \Delta P_{CTD}$$

$$= \frac{BPV_{CTD}}{PF_{CTD}}$$

$$= \frac{MD_{CTD} \cdot P_{CTD}}{PF_{CTD} \cdot 10,000}.$$  \hspace{1cm} (12.7)

For the gilt contract, we have $\Delta P^f_g = 0.088036$ (i.e. $0.11473/1.3032131$), while for the Bund contract, we have $\Delta P^f_b = 0.058145$ (i.e. $0.06658/1.145064$). This shows that the price of the gilt future is 51 per cent more responsive to a parallel yield curve shift than the price of the Bund future.

$$h = \frac{BPV_g}{BPV_b} \cdot \frac{\text{Face value of long gilt futures contract}}{\text{Face value of bund futures contract}} \cdot e_0$$

$$= \frac{0.11473 \cdot £100,000}{0.06658 \cdot €100,000} \cdot €1.56 \text{ per £} = 2.69,$$

where:

$$h = \text{hedge ratio} = \frac{\text{Number of Bund contracts}}{\text{Number of gilt contracts}}.$$
In Example 12.9, the illustrations of the butterfly spread should be amended as follows:

**The speculator buys the butterfly spread:**

\[
\begin{align*}
\text{Sell 1} & \times 170 \text{ contract} & 5.25 \text{ cents} \\
\text{Buy 1} & \times 165 \text{ contract} & 6.30 \text{ cents} \\
\text{Buy 1} & \times 175 \text{ contract} & 1.70 \text{ cents} \\
\text{Sell 1} & \times 170 \text{ contract} & 5.25 \text{ cents}
\end{align*}
\]

\[165–170 \text{ spread} = -105 \text{ ticks}\]

\[170–175 \text{ spread} = -355 \text{ ticks}\]

\[\text{Butterfly spread} = -355 - (-105) = -250 \text{ ticks}\]

**The speculator reverses his trades:**

\[
\begin{align*}
\text{Buy 1} & \times 170 \text{ contract} & 2.40 \text{ cents} \\
\text{Sell 1} & \times 165 \text{ contract} & 4.10 \text{ cents} \\
\text{Sell 1} & \times 175 \text{ contract} & 0.90 \text{ cents} \\
\text{Buy 1} & \times 170 \text{ contract} & 2.40 \text{ cents}
\end{align*}
\]

\[165–170 \text{ spread} = -170 \text{ ticks}\]

\[170–175 \text{ spread} = -150 \text{ ticks}\]

\[\text{Butterfly spread} = -150 - (-170) = 20 \text{ ticks}\]

The first paragraph should read as follows (March becomes June):

A long cash-and-carry (see Figure 12.6) involves borrowing funds at money market rates in June and using the proceeds to purchase a gilt, while simultaneously selling a gilt futures contract to lock in the price at which the gilt can be sold (transaction AB); receiving the coupon yield on the gilt for \(N\) days between June and September (transaction BC); delivering the gilt against the future in September (transaction CD); and repaying the loan with interest using the proceeds from the sale of the gilt (transaction DA). This strategy will give rise to an implied repo rate. If this rate exceeds the cost of borrowed funds or, equivalently, if the basis exceeds the cost-of-carry (i.e. market interest rate less coupon yield on the gilt), then a riskless long cash-and-carry arbitrage exists.

Exercise 5 should read as follows:

5 What is the difference between ‘open position trading’ and ‘spread trading’? Use examples to illustrate your answer.

The last line of data in Table 13.1 is incorrect. The table should be as follows:

<table>
<thead>
<tr>
<th>Number of securities in portfolio</th>
<th>Standard deviation of portfolio returns, (\sigma_P) (% per month)</th>
<th>Correlation with return on the market portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7.0</td>
<td>0.54</td>
</tr>
<tr>
<td>2</td>
<td>5.0</td>
<td>0.63</td>
</tr>
<tr>
<td>3</td>
<td>4.8</td>
<td>0.75</td>
</tr>
<tr>
<td>4</td>
<td>4.6</td>
<td>0.77</td>
</tr>
<tr>
<td>5</td>
<td>4.6</td>
<td>0.79</td>
</tr>
<tr>
<td>10</td>
<td>4.2</td>
<td>0.85</td>
</tr>
<tr>
<td>15</td>
<td>4.0</td>
<td>0.88</td>
</tr>
<tr>
<td>20</td>
<td>3.9</td>
<td>0.89</td>
</tr>
</tbody>
</table>

*Source:* Wagner and Lau (1971)
In Example 14.1, the calculation of duration should be amended to read as follows:

\[
\text{Duration} = \frac{d}{P_d} \left[ \frac{(1 + r_m)^{T+1} - (1 + r_m) - r_m T}{(r_m)^2 (1 + r_m)^T} \right] + \frac{B}{P} \frac{T}{(1 + r_m)^T} \\
= 13.77 \left[ \frac{(1.1)^6 - (1.1) - 0.1(5)}{(0.1)^2 (1.1)^5} \right] + \frac{100}{114.28} \frac{5}{(1.1)^5} \\
= 4 \text{ years},
\]

where:

- \( P_d \) = current (dirty) price of the bond;
- \( B \) = maturity value of the bond;
- \( T \) = years to maturity;
- \( r_m \) = yield to maturity.

The line immediately after equation (14.15) should read:

and so lies on the SML. The difference between the actual expected return (\( \bar{r}_i \)) and the equilibrium

The first paragraph should read:

Market timing is equivalent to adjusting the beta of the portfolio over time. If the fund manager is expecting a bull market, he wants to increase the beta of the portfolio (i.e. make it more aggressive). If he is expecting a bear market, he wants to reduce the beta of the portfolio (i.e. make it more defensive). One way of doing this would be to switch into high-beta shares in a bull market and switch out of them in a bear market. However, the transaction costs involved would make this an expensive strategy. An alternative is to keep the portfolio of risky assets (in this case, \( A \)) constant and raise or lower beta by lowering or raising the proportion of the client’s portfolio held in cash. This can be a cheaper alternative, since moving into or out of cash is generally cheaper than moving between different shares. An even cheaper alternative is to use futures or options, and this is examined in Chapter 16.

The second line should be amended to read as follows:

\[
\bar{r}_p = \sum_{i=1}^{N} \theta_i \bar{r}_i = \text{expected return on the portfolio};
\]

In line 4 of the second paragraph, delete ‘Bank of England’ and insert ‘FSA’.

Blake et. al. (1999) has now been published. The entry should now read as follows:

Exercise 11, the data set for the riskless security is incorrect. The data table should read as follows:

<table>
<thead>
<tr>
<th>Year</th>
<th>Riskless security (%)</th>
<th>Fund manager (%)</th>
<th>Market portfolio (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>+4</td>
<td>+10</td>
<td>+8</td>
</tr>
<tr>
<td>2</td>
<td>+5</td>
<td>+30</td>
<td>+15</td>
</tr>
<tr>
<td>3</td>
<td>+4</td>
<td>0</td>
<td>+10</td>
</tr>
<tr>
<td>4</td>
<td>+3</td>
<td>−15</td>
<td>−9</td>
</tr>
<tr>
<td>5</td>
<td>+4</td>
<td>+12</td>
<td>+7</td>
</tr>
</tbody>
</table>

The last line in the balance sheet should be amended to read as shown in the replacement table that follows:

<table>
<thead>
<tr>
<th>Maturity (days)</th>
<th>Assets (£m)</th>
<th>Liabilities (£m)</th>
<th>Net exposed balance before hedging (£m)</th>
<th>Net exposed balance after hedging (£m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–90</td>
<td>100</td>
<td>500</td>
<td>(400)</td>
<td>0</td>
</tr>
<tr>
<td>91–180</td>
<td>200</td>
<td>0</td>
<td>200</td>
<td>0</td>
</tr>
<tr>
<td>181–270</td>
<td>200</td>
<td>0</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>271–365</td>
<td>200</td>
<td>0</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Perpetual or interest-rate insensitive</td>
<td>300</td>
<td>500</td>
<td>(200)</td>
<td>(200)</td>
</tr>
</tbody>
</table>

The first line of the ‘outcome’ table should be amended so that the table reads as follows:

<table>
<thead>
<tr>
<th>Date</th>
<th>Cash market</th>
<th>Futures market</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Feb</td>
<td>Borrowing rate = 13% (12% + 1%)</td>
<td>Sell 20 x £500,000 March 3-month interest rate futures contracts at 87.75 (i.e. 100 – 12.25%)</td>
</tr>
<tr>
<td>10 Mar</td>
<td>Firm borrows £10m for 3 months at 14% (13% + 1%)</td>
<td>Purchase 20 x £500,000 March contracts at 86.75 (i.e. 100 – 13.25%)</td>
</tr>
<tr>
<td></td>
<td>Additional interest: £10,000,000 x 0.14 – 0.13 4 = £25,000</td>
<td>Profit on contracts: 20 contracts x 100 ticks x £12.50 per tick = £25,000</td>
</tr>
</tbody>
</table>

Rate rises by 0.95 per cent, implying that six-month CDs are slightly less responsive to interest rate

Equation (16.7) should read as follows:

Number of contracts = \frac{\text{Face value of cash exposure}}{\text{Face value of futures contract} \times \beta_p} \\
= \frac{\text{Face value of cash exposure}}{\text{Value per index point \times Futures price}} \times \beta_p, \quad (16.7)
Equation (16.10) should read as follows:

\[
\text{Loss on futures position} = - \frac{\text{Number of contracts} \times \text{Value per index point}}{\text{Initial value of cash fund} \times P_f^{(1 \text{ April})}} \times \beta_p \times P_f^{(1 \text{ April})} \times \left( P_s^{(30 \text{ June})} - P_f^{(1 \text{ April})} \right)
\]

Page 607

\[
= - \frac{\text{Initial value of cash fund}}{\text{Value per index point} \times P_f^{(1 \text{ April})}} \times \beta_p \times \text{Value per index point} \\
\times \left( P_s^{(30 \text{ June})} - P_f^{(1 \text{ April})} \right)
\]

\[
= - \text{Initial value of cash fund} \\
\times \left( \frac{P_s^{(30 \text{ June})} - P_f^{(1 \text{ April})}}{P_f^{(1 \text{ April})}} \times \beta_p \right); \quad (16.10)
\]

Page 611

The third line of the final paragraph should read:

\[\text{index – cash index} = -\Delta(\text{September index – June index}).\] But the problem is that the June contracts

Page 614

The third line of the paragraph following equation (16.15) should read as follows:

10.5% 2013–15 with a price factor of 1.3032131 and currently trading at £118 per £100 nominal.)

Page 628

This is a revised version of the amendment to equation (16.28). It restores the original version of equation (16.27) and the paragraph immediately following equation (16.28).

\[
\text{Number of contracts} = \frac{\text{Face value of cash exposure}}{\text{Face value of index}} \times \beta_p. \quad (16.27)
\]

For a ratio hedge,

\[
\text{Number of contracts} = \frac{\text{Face value of cash exposure}}{\text{Face value of index}} \times \frac{\beta_p}{|\text{Option delta}|}. \quad (16.28)
\]

To illustrate, we will suppose that on 15 July a fund manager has a £5 million portfolio with a beta of 1.15 which he intends to hedge by buying LIFFE November 1850 put options on the FTSE 100 index. The closing index on 15 July is 1825.0, and the fund manager intends employing a fixed hedge. The number of contracts to hedge the portfolio is found using (16.27):
Exercise 30 should read as follows:

30 You are observe the following information on 1 November:

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market value of portfolio</td>
<td>£3m</td>
</tr>
<tr>
<td>Beta of portfolio</td>
<td>1.09</td>
</tr>
<tr>
<td>Spot FTSE 100 index</td>
<td>6920.0</td>
</tr>
<tr>
<td>LIFFE March 6950 put:</td>
<td></td>
</tr>
<tr>
<td>premium</td>
<td>53</td>
</tr>
<tr>
<td>delta</td>
<td>-0.45</td>
</tr>
</tbody>
</table>

Calculate the number of contracts and the cost of putting on a fixed hedge and a ratio hedge using the LIFFE options.

The entry for West (1988) should be amended to read:

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