
Contents

Introduction	xi
Chapter 1. Value: IFRS vs. US GAAP	1
1.1. Value and the time.	1
1.1.1. Cost of money, interest rate (nominal and real)	2
1.2. The time value of money: US GAAP	3
1.3. Future value and present value: capitalization and discounting in discrete time.	4
1.3.1. Simple interest	4
1.3.2. Compound interest	9
1.4. US GAAP: future value and present value of rules of time travel.	10
1.4.1. US GAAP: Effective annual rate and annual percentage rate	13
1.4.2. US GAAP: the determinants of interest rates.	16
1.5. Annuities and unearned income: IFRS.	19
1.5.1. Value of a sum of constant annuities	19
1.5.2. Current value of a sum of constant annuities	20
1.5.3. The updating of constant sums over an infinite period: the return	21
1.6. Calculating net present value and future value: US GAAP	22
1.6.1. Constant annuities of cash flows.	22
1.6.2. Perpetuity	28
1.6.3. Growing cash flows.	30
1.7. Market value	35
1.7.1. Relation required rate: value	36
1.7.2. Valuation of fixed rate debt	37

1.8. Actuarial rate of return	38
1.9. Value and risk	40
1.9.1. Probabilities and expected returns	40
1.9.2. Uncertain expected rate of return	41
1.9.3. Couple profitability, a risk: representation of expectation/standard deviation.	41
1.9.4. Introduction to diversification: the case of two assets	42
1.9.5. Notions of diversification and non-diversifiable risk	43
1.9.6. Modeling randomized profitability with a two-factor model	45
1.10. Value and information	46
1.10.1. Information and uncertainty	46
1.10.2. Information efficiency	50
1.10.3. Exercises	50
Chapter 2. Diagnosis of Financial Statements: IFRS	57
2.1. Economic and financial analysis of business data	57
2.1.1. Principles and levels of study	57
2.1.2. Typology of financial analysis	61
2.1.3. Destination of the financial statement analysis	63
2.2. Financial reading of the balance sheet	66
2.2.1. Principles of financial statement preparation	67
2.2.2. Mechanism	70
2.2.3. Functions: financing, investment, exploitation and distribution	79
2.2.4. Investment study	95
2.2.5. Random analysis	114
2.2.6. Undetermined analysis	125
Chapter 3. Analysis of the Financial Structure: IFRS vs. US GAAP	131
3.1. Major functions of the French Accounting Plan	131
3.1.1. Assets	131
3.1.2. Current liabilities	133
3.1.3. Sustainable resources	135
3.1.4. Fixed assets	141
3.1.5. Calculation of global net revolving fund	142
3.2. The need for working capital requirement (WCR)	144
3.2.1. WCRE (or WCE)	145
3.2.2. WCREE	145
3.2.3. Recommendations on the need for working capital	147
3.2.4. WCR in days of HVAC	149

3.3. Net cash	154
3.3.1. Cash flow and the result are linked without being correlated	155
3.3.2. Analysis and recommendations	156
3.3.3. Financial analysis in market value	160
3.3.4. Presentation of the balance sheet in net asset values	162
3.3.5. Structural risks	164
3.3.6. The risk of imminent failure	164
3.3.7. Recommendations	164
3.4. Balance sheet analysis: US GAAP	164
3.4.1. Balance sheet features	165
3.4.2. Balance Sheet Diagnosis	170
Chapter 4. Analysis of Activity: Analysis of Profit and Loss Account: IFRS vs. US GAAP	179
4.1. Profitability and management performance	179
4.1.1. Intermediate Management Balances	180
4.1.2. Current exploitation	183
4.1.3. Non-operating current	191
4.2. Management indicators of the Banque de France	193
4.2.1. Partial or current indicators	194
4.2.2. Global indicators	198
4.3. Correspondences of FCA indicators – Banque de France	200
4.4. CAF cash flow	202
4.4.1. Principles	202
4.4.2. FCA approach	204
4.4.3. Analysis of the Order of Chartered Accountants	205
4.5. Renewed indicators (IFRS) of management	205
4.5.1. EBITDA	206
4.5.2. ROA	206
4.5.3. ROE	206
4.5.4. NOPAT	206
4.5.5. ROCE	206
4.5.6. COFROI	206
4.5.7. Free cash flow	207
4.5.8. EVA MVA	207
4.6. Income statement analysis: US GAAP	207
4.6.1. Case study 1: Mydeco Corporation	221
4.6.2. Case study 2: Atlas	224

Chapter 5. Analysis of Operational Profitability and Risk: IFRS	227
5.1. Profitability according to the chosen full cost model	228
5.1.1. Results Achieved in Full Cost by Analysis Centers and Unit Cost of Indirect Costs	228
5.1.2. Study	232
5.1.3. Results obtained in full cost by activity (Activity by Costing)	232
5.2. Budget based on normal activity	235
5.2.1. Activity	236
5.2.2. Budget for which indirect costs are unbundled in terms of being variable and fixed	236
5.2.3. Cost-effectiveness.	236
5.2.4. Profitability	246
5.3. The breakeven point.	249
5.3.1. Representation.	250
5.3.2. Indicators of profitability.	252
5.3.3. Decision-making	253
5.4. Operating leverage.	262
5.5. Return on equity	270
5.5.1. Economic profitability	271
5.5.2. Leverage	272
5.5.3. Financial Leverage	272
Chapter 6. Analysis by Ratios: IFRS.	277
6.1. Composition and evolution ratios	277
6.1.1. Flow/Level	279
6.1.2. Level/Level	280
6.1.3. Levels/Flows	283
6.1.4. Flux/Flux	285
6.1.5. Flow/Level	286
6.1.6. Combination.	287
6.2. Database	289
6.2.1. Activity ratios, profitability, balance, investment, debt, profitability of the Banque de France	290
6.2.2. Expeditious method of credit managers.	300
Chapter 7. Analysis by Flux Tables: IFRS vs. US GAAP	305
7.1. Functional chart of the French Accounting Plan	306
7.1.1. Table of changes in total net working capital WC	306
7.1.2. Table of changes in working capital requirement	323

7.1.3. Synoptic diagram of the links between two-year financial statements	326
7.2. Financing table of the Banque de France	327
7.2.1. Functional balance	327
7.2.2. Cash flow statement	330
7.3. Cash flow statement of the French Association of Chartered Accountants	339
7.3.1. Net cash flows from operations	339
7.3.2. Net cash flows from investments	342
7.3.3. Net cash flows related to financing	342
7.3.4. Change in balance sheet cash position	343
7.3.5. Diagnosis of the financing table of the French Association of Chartered Accountants	343
7.4. Free cash flow table spanning several years.	345
7.4.1. The method	347
7.5. Summary of the restatements of financing and flow tables	353
7.5.1. Table	353
7.5.2. Risk diagnosis.	354
7.6. Statement of cash flow analysis: US GAAP.	359
7.6.1. Features of cash flow statement	359
7.6.2. Cash flow statement diagnosis	362
7.7. Statement of stockholders' equity	364
Conclusion	367
Glossary	369
Bibliography	379
Index	381