Contents

1
1
6
8
11
21
23
25
27
27
27
34
38
40
41
41
92
102
107

CHAPTER 4	
Credit Portfolio Models	109
Structural Models	110
Explicit Factor Models	133
Actuarial Models	141
Analytical Comparison of the Credit Portfolio Models	148
Empirical Comparison of the Credit Portfolio Models	153
What Models Are Financial Institutions Using?	161
Notes	161
APPENDIX TO CHAPTER 4: Technical Discussion of Moody's-	101
KMV Portfolio Manager Mattia Filiaci	162
Default Correlation	162
Facility Valuation	163
Generating the Portfolio Value Distribution	174
Outputs	176
Notes	178
Tools to Manage a Portfolio of Credit Assets CHAPTER 5	181
Loan Sales and Trading	
Primary Syndication Market	183
Secondary Loan Market	183
Note	191
	192
CHAPTER 6	
Credit Derivatives with Gregory Hayt	193
1axonomy of Credit Derivatives	1 93
The Credit Derivatives Market	
Using Credit Derivatives to Manage a Portfolio of Credit Assess	201
Them's Credit Derivatives	203
Notes	209 224
CHAPTER 7	44 4
Securitization	
·	225
Elements of a CDO	225
"Traditional" and "Synthetic" CDO Structures	229
Applications of CDOs	222

To What Extent and Why Are Financial Institutions	
Using Securitizations?	236
Regulatory Treatment	237
Note	240
PART THREE	
Capital Attribution and Allocation	241
CHAPTER 8	
Capital Attribution and Allocation	243
Measuring Total Economic Capital	243
Attributing Capital to Business Units	247
Attributing Capital to Transactions	252
Performance Measures—The Necessary Precondition	
to Capital Allocation	258
Optimizing the Allocation of Capital	267
Notes	269
APPENDIX TO CHAPTER 8: Quantifying Operational Risk	270
Process Approaches	274
Factor Approaches	274
Actuarial Approaches	275
Notes	276
APPENDIX	
Statistics for Credit Portfolio Management Mattia Filiaci	277
Basic Statistics	278
Applications of Basic Statistics	306
Important Probability Distributions	314
Notes	324
References	327
ndex	333