CHAPTER 23 Credit Derivatives

Practice Questions

Problem 23.8.

Suppose that the risk-free zero curve is flat at 7% per annum with continuous compounding and that defaults can occur half way through each year in a new five-year credit default swap. Suppose that the recovery rate is 30% and hazard rate is 3%. Estimate the credit default swap spread? Assume payments are made annually.

The table corresponding to Tables 23.2, giving unconditional default probabilities, is

Time (years)	Probability of surviving to year end	Default Probability during year 0.0296	
1	0.9704		
2	0.9418	0.0287	
3	0.9139	0.0278	
4	0.8869	0.0270	
5	0.8607	0.0262	

The table corresponding to Table 23.3, giving the present value of the expected regular payments (payment rate is s per year), is

Time (yrs)	Probability of survival	Expected Payment	Discount Factor	PV of Expected Payment
1	0.9704	0.9704s	0.9324	0.9048s
2	0.9418	0.9418x	0.8694	0.8187s
3	0.9139	0.9139s	0.8106	0.7408s
4 0.8869		0.8869s 0.7558		0.6703s
.5	0.8607	0.8607s	0.7047	0.6065s
Total				3.7412s

The table corresponding to Table 23.4, giving the present value of the expected payoffs (notional principal =\$1), is

Time (yrs)	Probability of default	Recovery Rate	Expected Payoff	Discount Factor	PV of Expected Payment
0.5	0.0296	0.3	0.0207	0.9656	0.0200
1.5	0.0287	0.3	0.0201	0.9003	0.0181
2.5	0.0278	0.3	0.0195	0.8395	0.0164
3.5	0.0270	0.3	0.0189	0.7827	0.0148
4.5	0.0262	0.3	0.0183	0.7298	0.0134
Total		_			0.0826

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and Systems Analysis K V Mital, 1996 The Mathematical Aspects Of Operations Research And Systems Analysis Concerned With Optimization Of Objectives Form The Subject Of This Book In Its Revised Updated And Enlarged Third Edition Discussion On Linear Programming Has Been Expanded And Recast With Greater Emphasis On Duality Theory Sensitivity Analysis Parametric Programming Multiobjective And Goal Programming And Formulation And Solution Of Practical Problems Chapters On Nonlinear Programming Include Integer Programming Kuhn Tucker Theory Separable And Quadratic Programming Dynamic Programming Geometric Programming And Direct Search And Gradient Methods A Chapter On Theory Of Games Is Also Included A Short Note On Karmarkars Projective Algorithm Is Given In The Appendix The Book Keeps In View The Needs Of The Student Taking A Regular Course In Operations Research Or Mathematical Programming And Also Of Research Scholars In Other Disciplines Who Have A Limited Objective Of Learning The Practical Aspects Of Various Optimization Methods To Solve Their Special Problems For The Former Illustrative Solved Examples And Unsolved Examples At The End Of Each Chapter Small Enough To Be Solved By Hand Would Be Of Greater Interest While For He Latter Summaries Of Computational Algorithms For Various Methods Which Would Help Him To Write Computer Programmes To Solve Larger Problems Would Be More Helpful A Few Computer Programmes In Fortran Iv Have Also Been Given In The Appendix Parallel Combinatorial Optimization El-Ghazali Talbi, 2006-12-13 This text provides an excellent balance of theory and application that enables you to deploy powerful algorithms frameworks and methodologies to solve complex optimization problems in a diverse range of industries Each chapter is written by leading experts in the fields of parallel and distributed optimization Collectively the contributions serve as a complete reference to the field of combinatorial optimization including details and findings of recent and ongoing investigations Set-Valued, Convex, and Nonsmooth Analysis in Dynamics and Control Rafal K. Goebel, 2024-06-26 Set valued analysis convex analysis and nonsmooth analysis are relatively modern branches of mathematical analysis that have become increasingly relevant in current control theory and control engineering literature This book serves as a broad introduction to analytical tools in these fields and to their applications in dynamical and control systems and is the first to cover these topics with this scope and at this level Both continuous time and discrete time mutlivalued dynamics modeled by differential and difference inclusions are considered Set Valued Convex and Nonsmooth Analysis in Dynamics and Control An Introduction is aimed at graduate students in control engineering and applied mathematics and researchers in control engineering who have no prior exposure to set valued convex and nonsmooth analysis The book will also be of interest to advanced undergraduate mathematics students and mathematicians with no prior exposure to the topic The expected mathematical background is a course on nonlinear differential equations dynamical systems and a course on real analysis Knowledge of some control theory is helpful but not essential Introduction To Algorithms Thomas H Cormen, Charles E Leiserson, Ronald L Rivest, Clifford Stein, 2001 An extensively revised edition of a mathematically rigorous yet accessible introduction to algorithms

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