

## Dedication

### Ch 01 Preface

### Ch 02 Introduction

### Ch 03 Business operations

- 2.1 What are you getting yourself into?
- 2.2 Structure of the monograph
- 2.3 Getting started
- 2.4 Clarifying remarks
- 2.5 System overview
- 2.6 Introduction to InsCo

- 3.1 General considerations
- 3.2 Units
- 3.3 Reinsurance
- 3.4 Asset risk and Economic Scenario Generator
- 3.5 Capital structure
- 3.6 Accounting
- 3.7 Pro formas

### Ch 04 Capital adequacy and sources of risk

- 4.1 Capital adequacy
- 4.2 Risk analysis
- 4.3 Algorithms

### Ch 05 Pricing and allocation

- 5.1 Pricing the whole
- 5.2 Allocation to units: Overview
- 5.3 Four technical adjustments
- 5.4 Pricing layers in total
- 5.5 Pricing units via pricing layers
- 5.6 Five representative distortion functions
- 5.7 The Industry Standard Approach and its problems
- 5.8 Pricing events: An explanation
- 5.9 Summary
- 5.10 Algorithms

### Ch 06 Applications of pricing and alloca- tion

- 6.1 Performance assessment
- 6.2 Reinsurance decision-making
- 6.3 New business pricing
- 6.4 Mergers and acquisitions
- 6.5 Portfolio optimization

### Ch 07 Selecting and calibrating an SRM

- 7.1 The envelope of possibilities and the five representatives
- 7.2 Required premium by distortion
- 7.3 Zeroing in on a distortion function
- 7.4 Embracing the range

### Ch 08 Evaluating models

- 8.1 Evaluating your model
- 8.2 Evaluating third-party models
- 8.3 Evaluating modeling platforms

### Ch 09 Advanced topics

- 9.1 Dealing with uncertainty
- 9.2 The Iman-Conover method
- 9.3 Allocating capital, if you must
- 9.4 Comparisons with Bodoff's layer capital allocation

### Ch 10 Calculations with Aggregate

- 10.1 Aggregate and Python
- 10.2 Aggregate and R
- 10.3 Reproducing the code examples
- 10.4 Reproducing the discrete example
- 10.5 A more realistic example

### Ch 11 Appendices

- 11.1 Table of symbols
- 11.2 Actuarial Standards of Practice
- 11.3 Glossary

### Ch 12 Bibliography