Java Methods for Financial Engineering: Applications in Finance and Investment

By Philip Barker

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This book describes the principles of model building in financial engineering. It explains those models as designs and working implementations for Java-based applications. The book provides software professionals with an accessible source of numerical methods or ready-to-use code for use in business applications. It is the first book to cover the topic of Java implementations for finance/investment applications and is written specifically to be accessible to software practitioners without prior accountancy/finance training. The book develops a series of packaged classes explained and designed to allow the financial engineer complete flexibility.

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Review

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"This is a book that aims to provide software professionals with an accessible source of numerical methods and/or a 'ready-to-use' code for use in business applications. Anyone working in management sciences, in modeling or software development will want to peruse this text. … 'it is the first book to cover the topic of Java implementations for finance investment applications.' The book sets out to describe the principles of model building in financial engineering and to explain those models as designs for Java-based applications." (C.J.H. Mann, Kybernetes, Vol. 37 (1), 2008)

From the Back Cover

This book is structured around the main theories and models used by practitioners to engineer finance and investment tools. The methods developed and implemented in the text are organized as chapters which cover the core areas. Each chapter is largely self-contained, thus the practitioner or student can conveniently focus on a defined tool and have immediate access to an implemented solution. Those engaged in the design and evaluation of new products will find the quick access to a wide range of robust core methods invaluable in constructing bespoke implementations.

With the pervasiveness and rapid pace of advancement in Web based technologies, it is now a given that any commercially useful computational tool is able to make an effective and efficient use of Web based platforms. Java is the language of choice for developing highly efficient Web based applications. All of the methods in this book are written in Java and use is made of the fully optimised Java Collections for data manipulation. For practitioners and students alike who are still working with legacy C++ or Visual Basic implementations, this book will serve as an excellent reference for translating or porting their applications into a Web centric environment.

Phil Barker followed an academic career for many years , holding a lectureship in Computer Science at Heriot-Watt University, Edinburgh where he led undergraduate degree and postgraduate master's courses in Computer Science and Accountancy. He has a considerable depth of commercial experience having directed research, technical and operations functions within technology based companies serving blue chips in finance, investment and banking. He is currently CEO of BWA Technologies Ltd a company specializing in the development of investment and risk management software.

About the Author

Phil Barker has considerable experience in both software engineering and in finance and investment having taught courses at the National Alvey HCI centre, a government funded organisation transferring university based research into commercial applications. Prior to this he lectured at Heriot-Watt University where he taught undergraduate and postgraduate courses in computer science and accountancy. His research focused

on neural networks and cognitive modelling involving the use of software simulations. He is currently an independent consultant to the financial and investment sector.

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