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2.4 Benchmarking2.4.1 Tracking Error; 3 Statistical Analysis; 3.1 Basic Performance Plots; 3.1.1 Value Added Index; 3.1.2 Histograms; 3.2 Probability Distributions; 3.2.1 Populations and Samples; 3.3 Probability Density Function; 3.4 Cumulative Distribution Function; 3.5 The Normal Distribution; 3.5.1 Standard Normal Distribution; 3.6 Visual Tests for Normality; 3.6.1 Inspection; 3.6.2 Normal Probability Plot; 3.7 Moments of a Distribution; 3.7.1 Mean and Standard Deviation; 3.7.2 Skew; 3.7.3 Kurtosis; 3.8 Covariance and Correlation; 3.9 Linear Regression; 3.9.1 Coefficient of Determination
3.9.2 Residual Plots3.9.3 Jarque-Bera Test; 4 Mean-Variance Optimisation; 4.1 Portfolio Theory; 4.1.1 Mean-Variance Analysis; 4.1.2 An Optimisation Problem; 4.1.3 Sharpe Ratio Maximisation; 4.2 Efficient Portfolios; 5 Performance Measurement; 5.1 The Intuition Behind Risk-Adjusted Returns; 5.1.1 Risk-Adjusted Returns; 5.2 Absolute Risk-Adjusted Return Metrics; 5.2.1 The Sharpe Ratio; 5.2.2 The Modified Sharpe Ratio; 5.2.3 The Maximum Drawdown Ratio; 5.3 Market Model Risk-Adjusted Return Metrics; 5.3.1 The Information Ratio; 5.3.2 The Treynor Ratio; 5.3.3 Jensens Alpha; 5.3.4 GH1 Metric 5.3.5 The M2 Metric5.3.6 The GH2 Metric; 5.4 MAR and LPM Metrics; 5.4.1 The Sortino Ratio; 5.4.2 The Omega Ratio; 5.4.3 The Upside Potential Ratio and Group Rankings; 5.5 Multi-Factor Asset Pricing Extensions; 5.5.1 The Choice of Factors; 6 Hedge Fund Classification; 6.1 Financial Instrument Building Blocks and Style Groups; 6.2 Hedge Fund Clusters and Classification; 6.2.1 Metric Definitions; 6.2.2 Creating Dendrograms; 6.2.3 Interpreting Dendrograms; 7 Market Risk Management; 7.1 Value-at-Risk; 7.2 Traditional VaR Methods; 7.2.1 Historical Simulation; 7.2.2 Parametric Method
7.2.3 Monte-Carlo Simulation

Sommario/riassunto

The second book in Darbyshire and Hampton's Hedge Fund Modelling and Analysis series, Hedge Fund Modelling and Analysis Using MATLAB® takes advantage of the huge library of built-in functions and suite of financial and analytic packages available to MATLAB®. This allows for a more detailed analysis of some of the more computationally intensive and advanced topics, such as hedge fund classification, performance measurement and mean-variance optimisation. Darbyshire and Hampton's first book in the series, Hedge Fund Modelling and Analysis Using Excel & and VBA, is seen as a valuable supplementary text to this book. Starting with an overview of the hedge fund industry the book then looks at a variety of commercially available hedge fund data sources. After covering key statistical techniques and methods, the book discusses mean-variance optimisation, hedge fund classification and performance with an emphasis on risk-adjusted return metrics. Finally, common hedge fund market risk management techniques, such as traditional Value-at-Risk methods, modified extensions and expected shortfall are covered. The book's dedicated website, www.darbyshirehampton.com provides free downloads of all the data and MATLAB® source code, as well as other useful resources. Hedge Fund Modelling and Analysis Using MATLAB® serves as a definitive introductory guide to hedge fund modelling and analysis and will provide investors, industry practitioners and students alike with a useful range of tools and techniques for analysing and estimating alpha and beta sources of return, performing manager ranking and market risk management.