



An International Dynamic Asset Pricing Model

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Abstract

We examine the ability of a dynamic asset-pricing model to explain the returns on G7-country stock market indices. We extend Campbell's (1996) asset-pricing model to investigate international equity returns. We also utilize and evaluate recent evidence on the predictability of stock returns. We find some evidence for the role of hedging demands in explaining stock returns and compare the predictions of the dynamic model to those from the static CAPM. Both models fail in their predictions of average returns on portfolios of high book-to-market stocks across countries.

Keywords: capital asset pricing model (CAPM), international stock returns, intertemporal hedging

JEL Codes: F3, G12, G15

1. Introduction

The starting point of this paper is the observation of Flood, Hodrick, and Kaplan (1986) that stock returns are predictable. Flood, Hodrick, and Kaplan (1986) argued that one could not test for bubbles in stock prices without controlling for the rational movements in stock prices that are caused by fluctuations in expected rates of return. They used annual data and demonstrated that dividend yields, the ratio of the annual dividend to the current stock price, provided statistically significant forecasts of future stock returns, especially at the two-year horizon. Subsequent research by Campbell (1991) and Hodrick (1992) demonstrates that a vector autoregressive approach with monthly data generates significant time-varying forecasts of stock returns at any future horizon and has better small-sample properties than the direct long-horizon approach.

While theories of stock return predictability have been available since Merton (1973), the links between the theories of stock return predictability and the empirical analysis of this issue have been weak.¹ The intuition of Merton's model is that risk-averse consumer-investors want to hedge against adverse changes in their consumption and investment opportunity sets. Thus, the cross-section and time-series patterns of expected asset returns are determined by more than just the covariances of the returns on the assets with the return on the market portfolio, as in the static capital asset pricing model (CAPM). Expected returns also depend on the covariances of the returns on the assets with the state variables that describe the

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instruments to their risk factors There are numerous examples all coded in interactive Excel spreadsheets including many pricing formulae for exotic options but excluding the calibration of stochastic volatility models for which Matlab code is provided The chapters on options and volatility together constitute 50% of the book the slightly longer chapter on volatility concentrating on the dynamic properties the two volatility surfaces the implied and the local volatility surfaces that accompany an option pricing model with particular reference to hedging Volume IV Value at Risk Models builds on the three previous volumes to provide by far the most comprehensive and detailed treatment of market VaR models that is currently available in any textbook The exposition starts at an elementary level but as in all the other volumes the pedagogical approach accompanied by numerous interactive Excel spreadsheets allows readers to experience the application of parametric linear historical simulation and Monte Carlo VaR models to increasingly complex portfolios Starting with simple positions after a few chapters we apply value at risk models to interest rate sensitive portfolios large international securities portfolios commodity futures path dependent options and much else This rigorous treatment includes many new results and applications to regulatory and economic capital allocation measurement of VaR model risk and stress testing

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