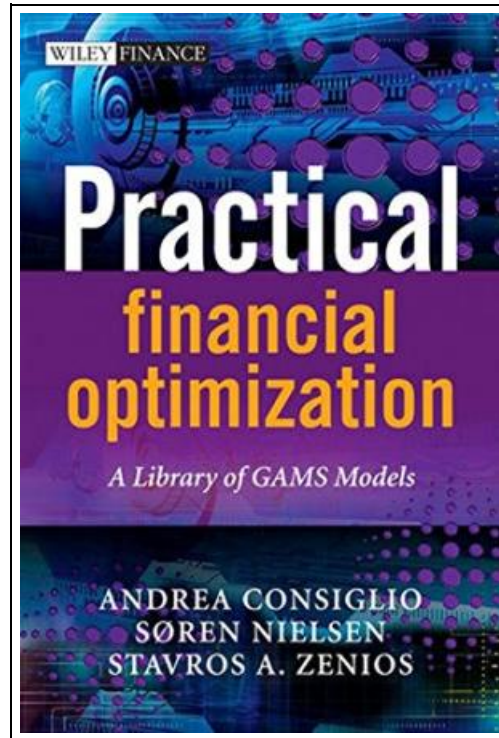# Practical Financial Optimization: A Library of GAMS Models (Hardback)

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Reviews

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(Jessie Rau)

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John Wiley and Sons Ltd, United Kingdom, 2010. Hardback. Book Condition: New. 250 x 174 mm. Language: English . Brand New Book. In Practical Financial Optimization: A Library of GAMS Models , the authors provide a diverse set of models for portfolio optimization, based on the General Algebraic Modelling System. GAMS consists of a language which allows a high-level, algebraic representation of mathematical models and a set of solvers - numerical algorithms - to solve them. The system was developed in response to the need for powerful and flexible front-end tools to manage large, real-life models. The work begins with an overview of the structure of the GAMS language, and discusses issues relating to the management of data in GAMS models. The authors provide models for mean-variance portfolio optimization which address the question of trading off the portfolio expected return against its risk. Fixed income portfolio optimization models perform standard calculations and allow the user to bootstrap a yield curve from bond prices. Dedication models allow for standard portfolio dedication with borrowing and re-investment decisions, and are extended to deal with maximisation of horizon return and to incorporate various practical considerations on the portfolio tradeability. Immunization models provide for the factor immunization of portfolios of treasury and corporate bonds. The scenario-based portfolio optimization problem is addressed with mean absolute deviation models, tracking models, regret models, conditional VaR models, expected utility maximization models and put/call efficient frontier models. The authors employ stochastic programming for dynamic portfolio optimization, developing stochastic dedication models as stochastic extensions of the fixed income models discussed in chapter 4. Two-stage and multi-stage stochastic programs extend the scenario models analysed in Chapter 5 to allow dynamic rebalancing of portfolios as time evolves and new information becomes known. Models for structuring index funds and hedging interest rate risk on...

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