



Real Estate Mathematics: Applied Analytics and Quantitative Methods for Private Real Estate Investing

David Lynn, Tim Wang, Greg MacKinnon

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Applied analytics for private real estate

Understanding the mathematics of real estate is an essential requirement to making any investment decision. With real estate markets improving and opportunities arising again after the recent economic downturn, the need to accurately analyse and calculate investments is greater than ever.

Real Estate Mathematics is a detailed and practical guide for private real estate fund managers and investors. Lead edited by David Lynn, PhD and Tim Wang, PhD, this guide features contributions from over 25 leading real estate professionals in the industry today that will shed light on some of the most challenging quantitative problems that face private real estate today.

This essential guide will help you:

- Understand the fundamentals of real estate investing and its drivers
- Assess and model quantitative risks using cutting-edge mathematical methods
- Forecast, measure and benchmark real estate performance
- Understand the dynamics of financing sources, including loans, debt, derivatives and CMBS
- Analyse and identify the risks and returns in making international and cross-border investments

- Calculate capital structure, management fees, carried interest and other economic incentives
- Familiarise yourself with the latest in real estate valuation and appraisals
- Gain insight into managing your portfolio through the cycles
- Inform yourself of the principles and methods of sustainable property financial analysis

Contributors:

Real Estate Mathematics is written by highly experienced and respected industry professionals from leading international institutions including:

- Aviva Investors
- Bard Consulting
- CBRE Econometric Advisors
- Chandan Economics
- GIC Real Estate
- Green Building Finance Consortium
- Grosvenor

- JPMorgan Chase & Co.

- MGPA

- Pension Real Estate Association

- Real Estate Economics

- Real Estate Research Corporation

- Royal Institute of Chartered Surveyors (RICS)

- ROZ Real Estate Council

- Russell Investments

- Zisler Capital Associates

Who should own this guide:

- Real Estate Fund Managers

- Fund of Fund Managers

- Institutional Investors

- Asset Managers

- Real Estate Bankers

- Real Estate Financiers

- Real Estate Lawyers

- Real Estate Consultants and Advisers

- Real Estate Analysts

- Real Estate Academics

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Christopher Sanchez:

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Heidi Garcia:

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