





MANAGEMENT SCIENCE







Valuation and Analysis of Collateralized Mortgage Obligations

John J. McConnell, Manoj Singh

Published Online: 1 Jun 1993 https://doi.org/10.1287/mnsc.39.6.692

Abstract

This study develops a model for the valuation of Collateralized Mortgage Obligations (CMOs). The model is based on a two-factor model of the term structure of interest rates and embeds an empirically estimated mortgage prepayment function. The model is used to analyze various CMO tranches, including standard sequential pay fixed-rate tranches, Planned Amortization Class (PAC) tranches, Targeted Amortization Class (TAC) tranches, floating-rate tranches, Interest Only (IO) and Principal Only (PO) tranches, Z-bonds and Residuals. The results of this analysis illustrate the sensitivity of the various tranches to differences in CMO structure, changes in interest rates, the characteristics of the underlying collateral, and mortgage prepayments.

< Previous Back to Top Next >



Volume 39, Issue 6

June 1993

Pages 657-776

Article Information

Metrics

INFORMS site uses cookies to store information on your computer. Some are essential to Downake our site work; Others help us improve the user experience. By using this site, you consent to the placement of these cookies. Please read our <u>Privacy Statement</u> to learn

more.

Agree

Information

Published Online: June 01, 1993

© 1993 INFORMS

Cite as

John J. McConnell, Manoj Singh, (1993) Valuation and Analysis of Collateralized Mortgage Obligations. Management Science 39(6):692-709.

https://doi.org/10.1287/mnsc.39.6.692

Keywords

collateralized mortgage obligations

CMOs

mortgage-backed securities

tranche

PDF download



Sign Up for INFORMS Publications Updates and News

SIGN UP



PORTICO



The Institute for Operations Research and the Management Sciences

5521 Research Park Drive, Suite 200 Catonsville, MD 21228 USA

phone 1 443-757-3500

phone 2 800-4INFORMS (800-446-3676)

fax 443-757-3515

email informs@informs.org

Get the Latest Updates

Discover INFORMS

Explore OR & Analytics

Get Involved

Impact

Join Us

Recognizing Excellence

Professional Development

Resource Center

Meetings & Conferences

Publications

About INFORMS

Communities

PubsOnLine

2024 INFORMS/ALIO/ASOCIO International Conference

Certified Analytics Professional

Career Center

INFORMS Connect

Copyright 2024 INFORMS. All Rights Reserved INFORMS Code of Conduct | Terms of Use | Privacy | Contact INFORMS | Sitemap

Follow INFORMS on: Twitter





Facebook in

