

Price-Earnings and Price-to-Book Anomalies: Tests of an Intrinsic Value Explanation^{*}

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First published: Spring 1993

<https://doi.org/10.1111/j.1911-3846.1993.tb00899.x>

Citations: 8

^{*} The authors thank Vic Bernard, Stephen Penman, Jim Ohlson, Bill Scott, an anonymous referee, and the participants at the 1989 Anten Homestead Conference, Columbia University, and the 1990 Conference on Financial Economics and Accounting, Rutgers University for helpful comments. The research was partially funded by the Faculty Research Fund, GSB, Columbia University. The authors acknowledge the assistance of The Center for Research in Security Prices at the University of Chicago during the visit there by Trevor Harris.

Abstract

Abstract. Price deviations from basic valuation models based on accounting earnings and book value of owners' equity are used to test the intrinsic value explanation of the price-earnings and price-book value anomalies. Relative price deviations from the implied benchmark prices are used to assign years into high and low deviation groups. Traditional zero investment hedge portfolios are formed in each year, and the returns are compared across high and low deviation years. The high deviation years show significantly larger size- and risk-adjusted returns over four holding periods, providing strong evidence in favor of an intrinsic value explanation of the anomalies. The findings also indicate that the test periods chosen for earlier studies can play a role in the results generated.

Résumé. Les auteurs utilisent les écarts de prix dérivés des modèles d'évaluation de base fondés sur les bénéfices comptables et la valeur comptable des capitaux propres pour vérifier l'explication des anomalies relevées dans les rapports cours-bénéfice et cours-valeur comptable, qui repose sur la valeur intrinsèque. Les écarts relatifs des cours par rapport aux cours de référence implicites sont utilisés par les auteurs pour classer les années selon la nature élevée ou faible des écarts. Pour chaque année sont constitués des portefeuilles traditionnels dont les placements ne font l'objet d'aucune couverture, et les rendements sont soumis à une comparaison combinée des années présentant des écarts élevés et faibles. Les années présentant un écart élevé affichent des rendements supérieurs et ajustés pour tenir compte du risque au cours de quatre périodes de détention, ce qui milite clairement en faveur de l'explication des anomalies reposant sur la valeur intrinsèque. Les résultats indiquent également que les périodes de test choisies dans les études antérieures peuvent avoir influé sur les résultats obtenus.

Ball, R. Anomalies in Relationships Between Securities' Yields and Yield Surrogates. *Journal of Financial Economics* (JuneSeptember 1978), 103–126.

[Google Scholar](#)

Banz, R. W. The Relationship Between Return and Market Value of Common Stocks, *Journal of Financial Economics* (March 1981), 3–18.

[Google Scholar](#)

Basu, S. Investment Performance of Common Stocks in Relation to Their Price-Earnings Ratios: A Test of the Efficient Market Hypothesis. *Journal of Finance* (June 1977), 663–82.

[Google Scholar](#)

Basu, S.. The Relationship Between Earnings' Yield, Market Value and Return for NYSE Common Stocks: Further Evidence. *Journal of Financial Economics* (June 1983), 129–56.

[Google Scholar](#)

Beaver, W. H., and D. Morse. What Determines Price-Earnings Ratios?, *Financial Analysts Journal* (JulyAugust 1978), 65–76.

[Google Scholar](#)

Black, F. Noise. *Journal of Finance* (July 1986), 529–43.

[Google Scholar](#)

Collins, D. W., and S. P. Kothari. An Analysis of Intertemporal and Cross-Sectional Determinants of Earnings Response Coefficients. *Journal of Accounting and Economics* (July 1989), 143–81.

[Google Scholar](#)

Cottle, S., R. F. Murray, and F. E. Block. *Graham and Dodd's Security Analysis*, 5th ed. McGraw-Hill, 1988.

[Google Scholar](#)

Eastern, P.D., and M.E. Zmijewski. 1989. Cross-Sectional Variation in the Stock Market Response to Accounting Earnings Announcements. *Journal of Accounting and Economics* (July), 117–41.

[Google Scholar](#)

Fairfield, P. M., and T. S. Harris. An Investigation of Mispricing and Risk as Explanations of the Returns to Price-to-Earnings and Price-to-Book Value Trading Strategies. Working Paper, Columbia University (March 1991).

[Google Scholar](#)

Fairfield, P. M., and R. J. Sweeney. Risk and the Earnings-Price and Book-Market Anomalies. Working Paper, Georgetown University (February 1991).

[Google Scholar](#)

Fama E. F., and K. R. French. Permanent and Temporary Components of Stock Prices. *Journal of Political Economy* (April 1988), 246-273.

[Google Scholar](#)

Graham, B., D. L. Dodd, and S. Cottle. *Security Analysis: Principles and Techniques*. 4th ed. McGraw-Hill, 1962.

[Google Scholar](#)

Jaffe, J., D. B. Keim, and R. Westerfield. Earnings Yields, Market Values and Stock Returns. *Journal of Finance* (March 1989), 135-148.

[Google Scholar](#)

Lehmann, B.N. Fads, Martingales and Market Efficiency. Working Paper, Columbia University, (June 1987).

[Google Scholar](#)

Ohlson, J.A. 1989. Accounting Earnings, Book Value and Dividends: The Theory of the Clean Surplus Equation (part I). Working paper, Columbia University, January 1989.

[Google Scholar](#)

Ohlson, J.A.. 1991. Earnings, Book Values, and Dividends in Security Valuation. Working paper, Columbia University, January 1991.

[Google Scholar](#)

Ou, J. A., and S. H. Penman. Financial Statement Analysis and the Prediction of Stock Returns. *Journal of Accounting and Economics* (November, 1989), 295-329.

[Google Scholar](#)

Reinganum, M. R. Misspecification in Capital Asset Pricing: Empirical Anomalies Based on Earnings' Yields and Market Values. *Journal of Financial Economics* (March 1981), 19-46.

[Google Scholar](#)

Rosenberg, B., K. Reid, and R. Lanstein. Persuasive Evidence of Market Inefficiency. *The Journal of Portfolio Management* (Spring 1985), 9–16.

[Google Scholar](#)

Shiller, R. J. Do Stock Prices Move Too Much to Be Justified by Subsequent Changes in Dividends?, *The American Economic Review* (June 1981), 421–36.

[Google Scholar](#)

Summers, L. H. Does the Stock Market Rationally Reflect Fundamental Values?, *The Journal of Finance* (July 1986), 591–601.

[Google Scholar](#)

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