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## The Hamada Equation Reconsidered

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### Abstract

A relationship between levered  $\beta$  and unlevered  $\beta$  that is consistent with the Miller-Modigliani Theorem (MM) is presented as a Modified Hamada Equation (MHE). It differs from the Original Hamada Equation (OHE). A scenario analysis reveals that the OHE results are anomalous when the firm's cost of debt is not equal to the risk-free rate and when its operating returns are different from market returns. The MHE is proposed as a more stable and reliable alternative

**Keywords:** Hamada, levered beta, financial leverage, WACC, CAPM, capital asset pricing model, Miller-Modigliani, capital structure, optimal capital structure, cost of capital, effect of debt on beta, numerical methods

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