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Expectation Theory: $i_{nt} = \frac{i_t + i_{t+1}^e + i_{t+2}^e + \dots + i_{t+(n-1)}^e}{n}$

Liquidity Premium Theory: $i_{nt} = \frac{i_t + i_{t+1}^e + i_{t+2}^e + \dots + i_{t+(n-1)}^e}{n} + l_{nt}$

i_{nt} : interest rate on a n-year bond at year t (in %);

i_t : interest rate on a 1-year bond at year t (in %);

i_{t+1}^e : interest rate on a 1-year bond expected for year t+1 at year t (in %);

l_{nt} : liquidity premium for the n-year bond at year t (in %)

Monetary base: $MB = C + R$

Monetary base: $MB = BR + MB_n$

M1: $M1 = C + D$

currency-to-deposit ratio: $c = \frac{C}{D}$

excess reserves-deposit ratio: $er = \frac{ER}{D}$

required reserves ratio: $rr = \frac{RR}{D}$

reserves: $R = ER + RR$

Checkable deposits: $D = \frac{1}{rr} \times R$

Change in checkable deposits: $\Delta D = \frac{1}{rr} \times \Delta R$

money multiplier: $m = \frac{1+c}{c+rr+er}$

Money supply: $M = m \times MB$

Change in money supply: $\Delta M = m \times \Delta MB$

MB : monetary base;

C : currency in circulation;

R : reserves;

BR : borrowed reserves;

MB_n : non-borrowed monetary base;

D : checkable deposits;

RR : requires reserves;

ER : excess reserves;

ΔM : change in M;

ΔMB : change in MB;

ΔD : change in D;

ΔR : change in R

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