The Deltona Instrument Company has 9 percent coupon bonds on the market with 6 years left to maturity. The bonds make annual payments. If the bond currently sells for $\$ 974.60$, what is its YTM?
8.82 percent
8.90 percent
8.98 percent
9.58 percent
9.63 percent

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\(f(x)=1000+-974.6^{*}(1+x)^{\wedge} 6+90\left[(1+x)^{\wedge} 6-1\right] / x\)
\(f^{\prime}(x)=6^{*}-974.6^{*}(1+x)^{\wedge} 5+90^{*}\left(6 x(1+x)^{\wedge} 5-(1+x)^{\wedge} 6+1\right) /\left(x^{\wedge} 2\right)\)
\(x=0.1\)
\(f(x)=-32.1585\)
\(f^{\prime}(x)=-7664.9133\)
\(\mathrm{x} 1=0.1--32.1585 /-7664.9133=0.0958044599538\)
Error Bound \(=0.0958044599538-0.1=0.004196>0.000001\)
\(\mathrm{x} 1=0.0958044599538\)
\(f(x 1)=-0.3356\)
\(f^{\prime}(x 1)=-7505.3769\)
x2 \(=0.0958044599538--0.3356 /-7505.3769=0.0957597499751\)
Error Bound \(=0.0957597499751-0.0958044599538=4.5 \mathrm{E}-5>0.000001\)
\(x 2=0.0957597499751\)
\(f(x 2)=-0\)
\(f^{\prime}(x 2)=-7503.6905\)
\(x 3=0.0957597499751--0 /-7503.6905=0.0957597449509\)
Error Bound \(=0.0957597449509-0.0957597499751=0<0.000001\)
YTM = 9.58\%
Annual YTM \(=9.58 \%\)
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