Flashcards Learning & Memorizing Key Topics and Formulas

SOA Exam FM — Spring 2017 Edition —



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Very GoodGoodSatisfactoryUnsatisfactory
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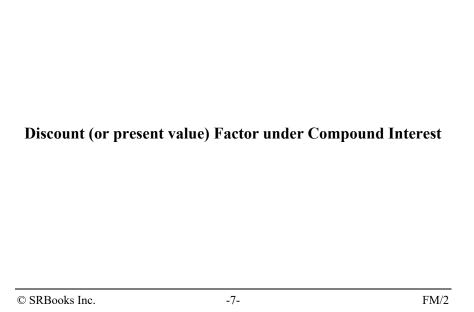
$$a(t) = (1+i)^t$$

Accumulation Function under Simple Interest

$$a(t) = 1 + it$$



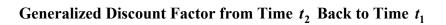
$$i_n = \frac{A(n) - A(n-1)}{A(n-1)}$$



$$v^t = \left(\frac{1}{1+i}\right)^t = (1+i)^{-t}$$



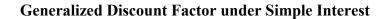
 $\frac{1}{1+it}$



$$\frac{A(t_1)}{A(t_2)}$$



$$\frac{A(t_1)}{A(t_2)} = \frac{(1+i)^{t_1}}{(1+i)^{t_2}} = v^{t_2-t_1}$$



$$\frac{A(t_1)}{A(t_2)} = \frac{1+i \cdot t_1}{1+i \cdot t_2} \neq 1+i(t_2-t_1)$$

Effective Rate, over 1/m of a Year, Equivalent to Nominal Annual Rate of $i^{(m)}$, Compounded m Times per Year

$$j = \frac{i^{(m)}}{m}$$



$$d_n = \frac{A(n)-A(n-1)}{A(n)} = \frac{a(n)-a(n-1)}{a(n)}$$