Interest Factor Equations

(P/F,i,n)
Single Payment Present Worth (Converts Future Worth to Present Worth)

$$P = F(1 + i)^{-n}$$

(F/P,i,n)
Single Payment Compound Amount (Converts Present Worth to Future Worth)

$$F = P(1 + i)^{n}$$

(P/A,i,n)
Uniform Series Present Worth (Converts Uniform Series to Present Worth)

$$P = A\frac{(1 + i)^{n} - 1}{i(1 + i)^{n}}$$

(F/A,i,n)
Uniform Series Compound Amount (Converts Uniform Series to Future Worth)

$$F = A\frac{(1 + i)^{n} - 1}{i}$$

(A/P,i,n)
Capital Recovery (Converts Present Worth to Uniform Series)

$$A = P\frac{i(1 + i)^{n}}{(1 + i)^{n} - 1}$$

(A/F,i,n)
Uniform Series Sinking Fund (Converts Future Worth to Uniform Series)

$$A = F\frac{i}{(1 + i)^{n} - 1}$$

(P/G,i,n)
Uniform Gradient Present Worth (Converts Uniform Gradient Series to Present Worth)

$$P = G\left(\frac{(1 + i)^{n} - 1}{i^{2}(1 + i)^{n}} - \frac{n}{i(1 + i)^{n}}\right)$$

(F/G,i,n)
Uniform Gradient Future Worth (Converts Uniform Gradient Series to Future Worth)

$$F = G\left(\frac{(1 + i)^{n} - 1}{i^{2}} - \frac{n}{i}\right)$$

(A/G,i,n)
Uniform Gradient Uniform Series (Converts Uniform Gradient Series to Uniform Series)

$$A = G\left(\frac{1}{i} - \frac{n}{(1 + i)^{n} - 1}\right)$$

An **Interest Factor Table** can be used instead of the equations given here, e.g.,
http://global.oup.com/us/companion.websites/9780199778126/pdf/Appendix_C_CITables.pdf.