

## ABBREVIATIONS AND NOTATION

Amort. = Amortization.

Ann. = Annual.

Beg. = Beginning.

Eq. = Equal.

Payt. = Payment.

$A$  = the annual replacement requirement for each dollar of capital invested annually in a growing plant.

$A_m$  = the accrued amortization in  $m$  years when the annual amortization installment is  $a$  and the interest rate is  $i$ .

$A'$  = the amount of \$1.00 at compound interest at the end of the  $n$ th year at the interest rate  $i$ .

$A''$  = the amount of an annuity of \$1.00 paid at the end of each year at compound interest at the interest rate  $i$ .

$a_n$  = the amortization installment which must be invested annually, in order to amount at compound interest to \$100 in  $n$  years.

$a_n'$  = the annual installment which at compound interest at the rate  $i$  will amount to \$1.00 in  $n$  years.

$a_n''$  = same as  $a_n'$  when annuity is applied at the beginning instead of at end of year.

$a_n'''$  = the annuity receivable at the end of each year which \$1.00 will buy for  $n$  years.

$a_m$  = the current amortization in the  $m$ th year, *i.e.*, the amortization increment  $a$  plus interest on the amortization fund already accumulated. It is the amortization installment which in the remaining years of life will retire the remaining capital.

$C$  = cost of replacing a group of articles.

$c$  = the annual renewal requirement for a group of articles whose cost of replacement is  $C$ .

$e$  = expectation, that is the probable remaining years of usefulness of any article whose probable life new was  $n$  years.

$e'$  = relative expectancy of an article whose probable life new is 10 years when compared with an article  $m$  years old whose probable life new is  $n$  years.

$g$  = the average annual investment in additions to a plant.

$i$  = the rate of interest per year expressed fractionally — thus for 6 per cent;  $i = 0.06$ .

$m$  = a number of years.

$m'$  = relative age of an article whose probable life new is 10 years, when compared with an article  $m$  years old, whose probable life new is  $n$  years.

NOTE: Other symbols are explained in the notes which precede the several tables.