Nucleator

Area estimation	$a = \pi \overline{l^2}$	l: length of rays
Volume estimation	$\overline{v_N} = \frac{4\pi}{3} \overline{l_n^3}$	l: length of rays
Estimated coefficient of error	$estCV(R) = \frac{\sqrt{\frac{1}{n-1}\sum_{i=1}^{n}(R_i - \bar{R})^2}}{\bar{R}}$	n : Number of nucleator estimates R_i : Area/volume estimate for each sampling site
Average area/volume estimate	$\bar{R} = \frac{1}{n}\sum_{i=1}^{n} R_i$	n: Number of nucleator estimates R_i: Area/volume estimate for each sampling site
Relative efficiency	$CE_n(R) = \frac{CV(R)}{\sqrt{n}}$	CV(R): Estimated coefficient of variation n: Number of nucleator estimates
Geometric mean of the area/volume estimate	$e^{\left(\frac{1}{n}\sum_{i=1}^{n} \ln R_i\right)}$	n: Number of nucleator estimates R_i: Area/volume estimate for each sampling site

References

Gundersen, H. J. G. (1988). The nucleator. *Journal of Microscopy, 151* (1), 3–21.