Estimated volume fraction	$\hat{V}_v(y, ref) = \frac{\sum_{i=1}^{m} P(Y)_i}{\sum_{i=1}^{m} P(ref)_i}$	*P(ref)* Points hitting reference volume *Y* Sub-region *P(Y)* Points hitting sub-region
Estimated area	$\hat{A} = \frac{1}{asf} * a(p) * P(Y_i)$	*asf* Area sampling fraction *a(p)* Area associated with a point

References

Howard, C. V., & Reed, M. G. (1998). *Unbiased Stereology, Three-Dimensional Measurement in Microscopy* (pp. 170–172). Milton Park, England: BIOS Scientific Publishers.