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Aug 30, 2020 a guide to practical stereology karger continuing education series vol 1 Posted By Erskine CaldwellLtd TEXT ID 172d4200 Online PDF Ebook Epub Library und verkauf duch amazon Elias Hyde A Guide To Practical Stereology 1

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Unbiased Stereology, second edition expands the comprehensive practical first edition guide to 3-D measurements in microscopy using stereological methods by adding a section on 2-D stereology, or "Petri-metrics". There is also an additional chapter on single object stereology, which permits the measurement of total volume, surface and feature length

of single arbitrary objects.

vi on geometric probability is included, students can be expected to create a few simple programs like those shown, but for other geometries. I am indebted to Tom Hare for critical reviews of the material and an endless enthusiasm to debate and derive stereological relationships; to John Matzka at Plenum Press for patiently instructing me in the intricacies of typesetting; to Chris Russ for helping to program many of these measurement techniques; and especially to Helen Adams, both for her patience with my creative fever to write yet another book, and for pointing out that the title, which I had intended to contrast to "theoretical stereology," can also be understood as the antonym of "impractical stereology." John C. Russ Raleigh, NC July, 1986 Chapter 1: Statistics 1 Accuracy and precision 1 The mean and standard deviation 5 Distributions 7 Comparison 13 Correlation 18 Nonlinear fitting 19 Chapter 2: Image Types 23 Planar sections 23 Projected images 25 Finite sections 28 Space-filling structures and dispersed phases 29 Types of images and contrast mechanisms 31 Sampling 32 Chapter 3: Manual Methods 35 Volume fraction 35 Surface density 38 Contiguity 41 Mean intercept length 42 Line density 43 Grain size determination 55 Curvature 48 Reticles to aid counting 49 Magnification and units 51 Chapter 4: Size Distributions 53 Intercept length in spheres 53 Nonspherical shapes 57 Corrections for finite section thickness 59 Lamellae 61 Measurement of profile size 62 Nonspherical particles 69 vii Contents viii Chapter 5: Computer Methods 73

Unbiased Stereology, Second Edition is a practical guide to making unbiased 3-D measurements via the microscope. Only those stereological techniques which have been tried and tested by real application are included. Although this technology is essentially mathematical and statistical, the authors do not immerse the reader in complex analysis, but rather provide simple heuristic explanations and references to the original proof, and illustrate the theory by analogies drawn from everyday experience. To give practical experience in application of the techniques, exercises are provided at the end of each chapter, complete with detailed worked answers.

Setting out the principles of stereology from a statistical viewpoint, this book focuses on both basic theory and practical implications. The authors discuss ways to effectively communicate statistical issues to clients, draw attention to common methodological errors, and provide references to essential literature. The first full text on design-bas

Stereological approaches allow researchers to estimate the number, size and shapes of cellular structures, neurons, and other features of biological tissue viewed under the microscope, using sampling techniques to provide a quantitative three-dimensional picture. This book explains how to design and evaluate stereological studies, covering the basic theoretical

principles as well as practical issues such as how to get started, pilot studies, and tissue preparation.

In *Unbiased Stereology*, the authors present a practical guide to making unbiased 3D measurements using microscopy. Stereology is the statistical inference of geometric parameters from spatially sampled information; it is considered unbiased when the test probes are positioned in an appropriately random manner. Now that unbiased stereology is required for nerve-cell counts in neurotoxicology by the FDA and by many journals before the acceptance of an article or study, this book is essential reading. It includes only those stereological techniques that have been tried and tested by actual application. Specific topics covered include: random sampling and random geometry; the estimation of feature volume, surface, length, number and mean particle size; as well as statistics for stereologists.

Those new to bioscience research as well as experienced practitioners will find that Mouton's explanations are the perfect companion for stereology courses and workshops.

Spanning the many advancements that have taken place in the field since the First Edition of this book was published, this Second Edition emphasizes the imaging of the skin in its entirety, rather than focusing solely on surface layers. The Second Edition includes new chapters on technologies such as in vivo confocal laser scanning microscopy, Raman spectroscopy, optical coherence tomography, nuclear magnetic imaging, high-resolution ultrasound, in vivo skin topometry, and multi-photon imaging of the skin.

Unbiased Stereology, Second Edition is a practical guide to making unbiased 3-D measurements via the microscope. Only those stereological techniques which have been tried and tested by real application are included. Although this technology is essentially mathematical and statistical, the authors do not immerse the reader in complex analysis, but rather provide simple heuristic explanations and references to the original proof, and illustrate the theory by analogies drawn from everyday experience. To give practical experience in application of the techniques, exercises are provided at the end of each chapter, complete with detailed worked answers.

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