

Contents

Preface	v
1. Introduction	1
2. Particle Size, Size Distributions and Shape	13
3. Quality Aspects in Particulate Analysis	43
4. Sampling of Particulate Material	73
5. Dispersion of Powders in Air and in Liquids	117
6. Overview of Size Characterization Techniques	137
7. Microscopy and Image Analysis	195
8. Sieves and Sieving	219
9. Electrical Sensing Zone	241
10. Laser Diffraction	259
11. Ultrasound Extinction	287
12. Dynamic Light Scattering	299
13. Sedimentation Techniques	319
14. In- and On-line Measurement	349
15. Written Standards	365
16. Reference Materials	377

17. Quality Management and Calibration 403

18. Definitions and Symbols 411

19. Multilingual Terminology 437

20. Statistical Background 469

Annex I: Names and Addresses of Institutes and Companies 513

Subject Index 531