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Chaotic Advection at High Reynolds Numbers; 5.2 Chaotic Advection at Intermediate Reynolds Numbers
5.3 Chaotic Advection at Low Reynolds Numbers5.4 Chaotic Advection in Multiphase Flow; References; Chapter 6. Active Micromixers; 6.1 Flow Instability in Microchannels; 6.2 Pressure-Driven Disturbance; 6.3 Electrohydrodynamic Disturbance; 6.4 Dielectrophoretic Disturbance; 6.5 Electrokinetic Disturbance; 6.6 Magnetohydrodynamic Disturbance; 6.7 Acoustic Disturbance; 6.8 Thermal Disturbance; References; Chapter 7. Characterization Techniques; 7.1 Imaging Techniques; 7.2 Measurement Using Optical Microscopy; 7.3 Quantification Methods for Micromixers; References
Chapter 8. Application of Micromixers8.1 Chemical Industry; 8.2 Applications in Chemical and Biochemical Analysis; 8.3 Outlook; References; Index

Sommario/riassunto

A wide range of applications in chemistry and biochemistry are driving the rapid development of microfluidics. This book focuses its attention on an important subtopic of microfluidics; mixing in microscale. It provides the fundamentals of transport effects in microscale including molecular diffusion, convection, and chaotic advection.The science and technology of microfluidics cover a wide spectrum and the science of mixing in microscale has evolved from reports on fabricated devices to an extensive collection of established knowledge. The focal point of Micromixers: Fundamentals, D