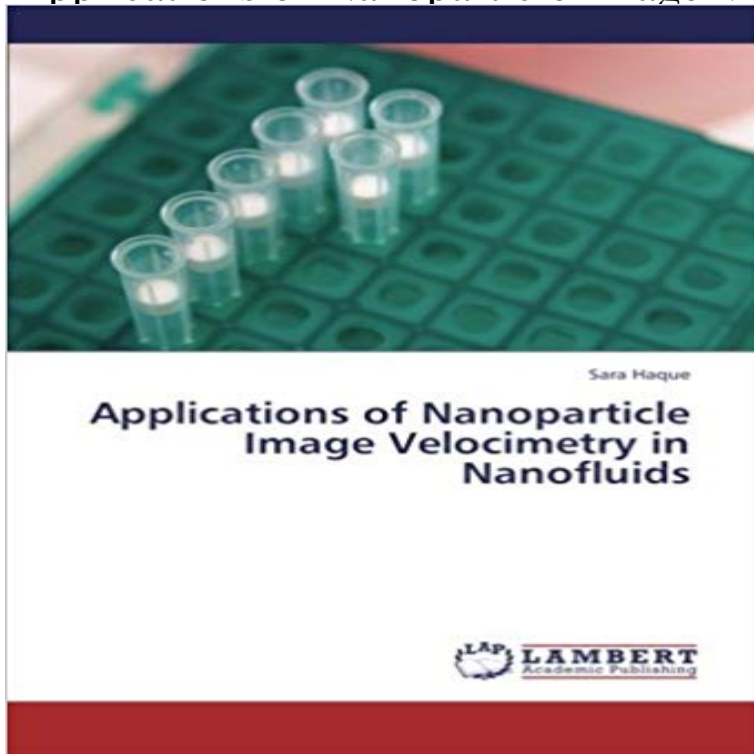


Applications of Nanoparticle Image Velocimetry in Nanofluids



Particle Image Velocimetry (PIV) is an optical technique used for the visualization of fluid flow. The instantaneous velocity is calculated using various techniques. PIV can be combined with other techniques to enhance the analysis of fluid flow. A novel far-field plasmonic resonance enhanced nanoparticle-seeded Particle Image Velocimetry (nPIV) has been demonstrated to measure the velocity in a micro channel. Chemically synthesized silver nanoparticles have been used to seed the flow. By using Discrete Dipole Approximation (DDA), plasmonic resonance enhanced light scattering has been calculated for spherical silver nanoparticles with diameters ranging from 15 nm to 200 nm. Optimum scattering wavelength is specified by the nanoparticles in two media: water and air. The diffraction-limited plasmonic resonance enhanced images of silver nanoparticles at different diameters have been recorded. By using standard PIV techniques, the velocity within the micro channel has been determined from the images collected.

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