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This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. The motion of particles in a four bar Ioffee bottle has been studied. A set of normalized equations were used to follow the motion of the guiding center of particles in the Ioffee bottle. The nonrelativistic equations of motion assumed conservation of energy but did not assume an adiabatic motion. The motion tended to be an oscillation from one quadrant of the system to another with a simultaneous motion along the longitudinal axis. The majority of the reflections occurred due to the longitudinal bars of the container rather than to the end mirrors. The magnetic moment of a particular particle was calculated at equally spaced steps in time. The moment varied in magnitude by twenty percent of the average value. The variation tended to fall within an envelope which could be correlated to reflections which the particle experienced. (Author). A study was made of charged particle motion in a free-vortex flow field to determine the parameters affecting particle motion and to determine the extent to which applied electric fields can influence the particle motion. Four different cases were investigated. These included first, the analysis of the motion of an uncharged particle in a free-vortex; second, analysis of the motion of a charged particle in a viscous medium under the influence of an applied electrostatic field; third, analysis of charged particle motion in a free-vortex under the influence of the applied electrostatic field, assuming the particle is first positively and then negatively charged; and fourth, analysis of the motion of two charged particles in a free-vortex, accounting for field effects due to particle charge. (Author). This is a two-part thesis concerning the motion of a test particle in a bath. In part one we use an expansion of the operator PLe[subscript it(1-P)L]LP to shape the Zwanzig equation into a generalized Fokker-Planck equation which involves a diffusion tensor depending on the test particle's momentum and the time. In part two the resultant equation is studied in some detail for the case of test particle motion in a weakly coupled Lorentz Gas. The diffusion tensor for this system is considered. Some of its properties are calculated; it is computed explicitly for the case of a Gaussian potential of interaction. The equation for the test particle distribution function can be put into the form of an inhomogeneous Schroedinger equation. The term corresponding to the potential energy in the Schroedinger equation is considered. Its structure is studied, and some of its simplest features are used to find the Green's function in the limiting situations of low density and long time. The paper is a mathematical treatment of particle motion in a linear accelerator for both the traveling wave and standing wave accelerators. Low energy, high energy, and relativistic particles are included. This thesis focuses on problems in microhydrodynamics involving both rigid and deformable particles. Two problems deal with the rotational behavior of thin particles at low aspect ratio in linear flows. Two other problems focus on studying the collision and aggregation dynamics of non-spherical particles. Another problem involves studying the motion of a deformable particle on a rigid curved surface. In chapter 2, the ideal collision rate of cylindrical particles of circular crosssection in simple shear flow is studied. The work extends Smoluchowski's results for spherical particles to cylindrical particles. Asymptotic solutions are obtained for collision rate of particles of very large and very low aspect ratio. Numerical simulations are performed to obtain collision rate of particles of finite aspect ratio. In chapter 3, the rotational behavior of thin disks in linear flow at low Reynolds number is studied. Using numerical simulations and asymptotic analysis, the work estimates the effective aspect ratio of thin particles. In chapter 4, a class of rigid thin particles is identified which stops rotating in simple shear flow. Numerical simulations and analytical results are used to estimate the aspect ratio at which the particle stops tumbling and the angle at which the particle will align. In chapter 5, aggregation kinetics of red blood cells in the presence of macro- molecules is studied. Experiments are performed to study red blood cell dimer formation in microchannels to estimate the dependence of rate constant of aggregation of deformable particles on shear rate and macromolecule concentration. In chapter 6, dynamics of a deformable particle on a rigid curved surface is studied. It is shown that the colloidal interaction energy of a deformable particle on a rigid surface can be tuned by tuning its curvature. Migration velocity of the particle on the rigid surface due to its change in curvature is estimated analytically in some asymptotic limits. Studying the possibility of storing a low emittance (or ''cooled'') beam of charged particles in a storage ring, the authors are faced with the effect of space charge by which particles are repelled and influence each others' motion. The correct evaluation of the space-charge effects is important to determine the attainment and properties of Crystalline Beams, a phase transition which intense beams of ions can undergo when cooling is applied. In this report they derive the equations of motion of a particle moving under the action of external resorting forces generated by the magnets of the storage ring, and of the electromagnetic fields generated by the other particles. The motion in every direction is investigated: in the longitudinal, as well as vertical and horizontal direction. The external forces are assumed to be linear with the particle displacement from the reference orbit. The space-charge forces are comparable in magnitude to the external focusing forces. The equations of motion so derived are then used to determine confinement and stability conditions for the attainment of Crystalline Beams, using transfer matrices. Particle motion in the ELF wiggler was investigated numerically and analytically. A transport system was designed using continuous quadrupole focusing in the wiggle plane and natural wiggle focusing in the non-wiggle plane.