

Numerical Simulation Of Near Field Explosion

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Numerical Simulation Of Near Field Numerical simulation of near-field focusing phenomena depending on the radius of curvature and the refractive index of microlens H. G. Park, G. J. Lee and Y. M. Song* Department of Electronics Engineering, Pusan National University, 2 Busandaehak-ro 63beon-gil, Geumjeong-gu, Busan 609-735, Republic of Korea *E-mail : ysong@pusan.ac.kr Numerical simulation of near-field focusing phenomena ... A numerical simulation method based on the Ffowcs-Williams and Hawkings model is employed to predict the mechanisms of the near-field aerodynamic noise distribution characteristics of an adjustable-blade axial-flow fan with different installation angles of moving blades ($\Delta\beta$). The simulated results reveal that with $\Delta\beta$ changing from -12° to 12° , the changing curves of the maximum total ... Numerical simulation on near-field aerodynamic noise of an ... Simulations have been performed using the large-eddy simulation technique, which allows including the effect of large turbulent structures on the sediment dispersion. The complex nature of the flow field poses challenges for numerical simulations, such as the presence of propeller jets and three different phases: water, sediment, and air bubbles. Numerical Simulation of Near-Field Dredging Plumes ... Near field simulations indicate that salinity increment in 18 meter distance from the outfall will be about 4.17 PSU which is less than the 42 PSU ambient salinity. Hence, the environmental criteria are thoroughly met. Numerical Simulation of Near Field and Far Field Brine ... Direct

Numerical Simulation of Near Field Thermal Radiation Based on Wiener Chaos Expansion of Thermal Fluctuating Current. Sy-Bor Wen. Sy-Bor Wen. Department of Mechanical Engineering, Texas A&M University. , 3123 TAMU, College Station, TX 77843-3123. Search for other works by this author on: This Site.

PubMed. Direct Numerical Simulation of Near Field Thermal ... The results showed that LS-DYNA can predict near-field explosion. Furthermore, using LS-DYNA Mapping 2D to 2D technology can effectively increase the numerical model size of which scaled distance... Numerical simulation of near-field explosion | Request PDF We present a numerical analysis of apertureless terahertz near-field microscopy (THz NFM), and successfully demonstrate that the THz NFM can have nanometer-scale resolution. For the numerical analysis we used HFSS based on finite element method (FEM). It is found that the THz near-field is strongly localized between two particles. Numerical Simulation of Apertureless Terahertz Near-Field ... The experimental results obtained with these experiments are crucial for developing and successful deployment of numerical models for underwater explosion simulation as benchmark for studying near-field effects on the target geometries . Study on JWL equation of state for the numerical ... Results of a numerical evaluation of transitional flow around a circular cylinder forced to oscillate in a direction normal to a uniform flow are presented. The cylinder is consid Large Eddy Simulation of a Smooth Circular Cylinder ... When $z < z_1$, the light spot is separated from the field of view, and this area is the near-field detection blind zone; when $z = z_1$, the light spot and the field of view begin to

coincide; when $z_1 \leq z \leq z_2$, the coincident area increases from 0 to the spot area, and then reduce to 0, where the two circle centers coincide at z_0 ; when $z > z_2$, the light spot is separated from the field of view. Numerical simulation of backscattered echo signal of lidar ... Numerical simulation of temperature field and residual stress in multi-pass welds in stainless steel pipe and comparison with experimental measurements. ... Due to the intense concentration of heat in the welding, the regions near the weld line undergo sever thermal cycles. The thermal cycles cause non-uniform heating and cooling in the ... Numerical simulation of temperature field and residual ... Numerical simulations of gas-to-particle conversion in turbulent flames are limited in comparison with studies of incompressible turbulence with passive scalars in the gas phase. Wu and Menon 20 20. J. Wu and S. Menon, " Aerosol dynamics in the near field of engine exhaust plumes," J. Appl. Meteorol. 40, 795- 809 (2001). Direct numerical simulations of nanoparticle formation in ... Numerical simulation of hydrodynamics and heat transfer under conditions of turbulent transverse flow past a ?trench? on a plane surface High Temperature, Vol. 43, No. 1 The Computational Modelling of Wing-Tip Vortices and their Near-Field Decay Numerical/experimental study of a wingtip vortex in the ... Numerical simulation of fluorescence correlation spectroscopy (FCS) based on near-field scanning optical microscopy (NSOM) was performed. A finite-difference time-domain method was employed to calculate the electric field distribution in the vicinity of the NSOM aperture and the Brownian motion of nanoparticles was reproduced by a Monte Carlo simulation. Numerical simulation

of near-field fluorescence ... Direct numerical simulation has been used to examine the near-field dynamics of annular gas-liquid two-phase jets. Based on an Eulerian approach with mixed fluid treatment, combined with an adapted volume of fluid method and a continuum surface force model, a mathematical formulation for the flow system is presented. Direct numerical simulation of the near-field dynamics of ... This paper reviews the current modeling techniques in CFD simulation of near-field pollutant dispersion in the urban environment and discusses the findings to give insights into future directions of practical applications. In Section 2, previous studies of near-field pollutant dispersion around buildings using CFD are overviewed. The CFD simulation of near-field pollutant dispersion in the ... Numerical simulation of electromagnetic propagation in super-resolution near-field structure Super-resolution near-field structure (Super-RENS), glass/SiN/Sb/SiN, a promising structure for near field ultrahigh-density optical storage, has been proposed and investigated since 1998. Numerical simulation of electromagnetic propagation in ... Near-Field Electrospinning (NFES) is a newly developed method to fabricate continuous and ordered solid nanofibers, with smaller spinneret-to-collector-distance the behavior of viscous jet would play a more prominent effect on the deposition and morphology of nanofiber. In this paper, a 2-dimensional physical model based on electrohydrodynamics and rheology was set up to discuss the morphology ...

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