

# Numerical Simulation Of Near Field Explosion

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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 Dredging Plumes ...

method of numerical simulation as applied to SNOM images of nanoparticles. THEORETICAL AND MATHEMATICAL PHYSICS Numerical Simulation of Nanoparticle Images in Scanning Near-Field Optical Microscopy V. I. Belotelov 1, 2, A. P. Pyatakov 1, 2, A. K. Zvezdin 1, 2, V. A. Kotov 1, and S. Logginov 2 1 General Physics Institute, Russian Academy of ...

(PDF) Numerical Simulation of a Near-Wall Bubble Collapse ...

The ion charge density near the second corona electrode is relatively small. A small wire-wire distance will make the electric field concentrated around the wires. Conclusion: According to this study, the wire-wire distance and the wire-plate distance have great effect on the distribution of charge density and electric field strength.

Numerical simulation of near-field fluorescence ...

Numerical simulation of vortical flows in the near field of jets from notched circular nozzles

Numerical simulation of vortical flows in the near field ...

Numerical simulation of near-field focusing phenomena depending on the radius of curvature a

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the refractive index of microlens H. G. Park, G. J. Lee and Y. M. Song\* Department of Electronic Engineering, Pusan National University, 2 Busandaehak-ro 63beon-gil, Geumjeong-gu, Busan 609-735, Republic of Korea \*E-mail : ysong@pusan.ac.kr Abstract- We ...

Numerical simulation of the near-wake flow field of a ...

Numerical simulation of a near wall bubble collapse is performed by Osterman et al. [135] in a ultrasonic pressure field. This numerical simulation has considered a 2-D and axisymmetric mo

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Numerical Simulation of Near-Field Seismoacoustic Probing of a Layer Inclusion in a Homogeneous Infinite Medium Yury Mikhailovich Zaslavsky, Vladislav Yuryevich Zaslavsky Institute of Applied Physics, Russian Academy of Sciences, Nizhny Novgorod, Russia Email: zaslav@hydro.appl.sci-nnov.ru

Numerical simulation of near-field focusing phenomena ...

Numerical Simulation of Near-Field Seismoacoustic Probing of a Layer Inclusion in a Homogeneous Infinite Medium Spatial distribution of acoustic and elastic waves generated by an elementary vibration source at seismic profiling frequencies in an infinite medium close to a layer inclusion an extended layer, is numerically simulated.

Numerical simulation of electrostatic field and flow field ...

The complex nature of the flow field poses challenges for numerical simulations, such as the

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presence of propeller jets and three different phases: water, sediment, and air bubbles. The model has been applied to simulate the effect of a so-called environmental valve, which reduces air inclusion.

### Numerical Simulation of Near-Field Seismoacoustic Probing ...

Near-Field Electrospinning (NFES) is a newly developed method to fabricate continuous and solid nanofibers, with smaller spinneret-to-collector-distance the behavior of viscous jet would have 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 of nanofiber.

### Numerical Simulation of Viscous Jet for Near-Field ...

Numerical simulation of vortical flows in the near field of jets from notched circular nozzles

### Numerical Simulation of Near Field and Far Field Brine ...

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 immersed boundary volume of fluid method and a continuum surface force model, a mathematical formulation for the flow system is presented. The swirl introduced at the jet nozzle exit is based on analytical inflow conditions.

### Numerical simulation of vortical flows in the near field ...

environmental criteria and coupling the near and far field process. The research of Zeitoun et al. (1972) and Pincince and List field studies More numerical studies[8,7]. about the negatively p

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indicate that the numerical modelling is a reliable tool to evaluate the brine discharge behavior in the near field region [4,5].

### Numerical Simulation Of Near Field

This letter gives the numerical simulation results of the optical distribution of a near-field virtual probe and analyzes the dependence of the virtual probe's on the aperture, the polarization, etc. The simulation results reveal that the transmission efficiency is higher than that of a nanoaperture-coated fiber probe.

### Direct Numerical Simulation of Near Field Thermal ...

Numerical Simulation of Near-Field Explosion Ding-Shing Cheng<sup>1</sup>, Cheng-Wei Hung<sup>2</sup> and Sheng-Jung Pi<sup>2\*</sup> <sup>1</sup> Department of Environmental Information and Engineering, Chung Cheng Institute of Technology, National Defense University, Taoyuan County, Taiwan, R.O.C. <sup>2</sup> School of Defense Science, Chung Cheng Institute of Technology, National Defense University,

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Request PDF | Numerical simulation of near-field explosion | The objective of this study is to study the shock wave due to near-field explosion by using Arbitrary-Lagrangian-Eulerian (ALE) fluid ...

### Numerical simulation analysis of a near-field optical ...

Direct Numerical Simulation of Near Field Thermal Radiation Based on Wiener Chaos Expansion

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Thermal Fluctuating Current Sy-Bor Wen Department of Mechanical Engineering,

Numerical simulation of the plastic flow field near the ...

The numerical simulation results of the axial velocity component at the wake center are lower than the measured values, but the maximum deviation is less than 10 %. For the tangential and radial velocity components, the numerical simulation results near the wake center are notably different from the measured values.

Direct numerical simulation of the near-field dynamics of ...

Numerical simulation on the plastic flow near the bonding surface of explosive welding is executed under some limited conditions. In order to calculate the bonding interface generation in explosive welding, a second order finite difference method is developed for elastic-plastic material.

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