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### **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> 1 Department of Environmental Information and Engineering, Chung Cheng Institute of Technology, National Defense University, Taoyuan County, Taiwan, R.O.C. 2 School of Defense Science, Chung Cheng Institute of Technology, National Defense University,

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

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

### **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 A. S. Logginov 2 1 General Physics Institute, Russian Academy of ...

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

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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 ion 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 ...**

environmental criteria and coupling the near and far field process. The research of Zeitoun et al. (1972) and Pincince

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and List field studies More numerical studies[8,7]. about the negatively plume indicate that the numerical modelling is a reliable tool to evaluate the brine discharge behaviour 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 metal-coated fiber probe.

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### **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 an ultrasonic pressure field. This numerical simulation has considered a 2-D and axisymmetric model. ...

### **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, i.e., an extended layer, is numerically simulated.

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

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Direct Numerical Simulation of Near Field Thermal Radiation Based on Wiener Chaos Expansion of Thermal Fluctuating Current Sy-Bor Wen Department of Mechanical Engineering,

## **Direct numerical simulation of the near-field dynamics of**

...



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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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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](mailto:zaslav@hydro.appl.sci-nnov.ru)

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### **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 adapted 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 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

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tangential and radial velocity components, the numerical simulation results near the wake center are notably different from measured values.

### **Numerical simulation of vortical flows in the 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 Abstract- We ...

### **Numerical simulation of electrostatic field and flow field**

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...

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. The model has been applied to simulate the effect of a so-called environmental valve, which reduces air inclusion.

### **Numerical Simulation of Nanoparticle Images in Scanning ...**

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

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Brownian motion of nanoparticles was reproduced by a Monte Carlo simulation.

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

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-dimentional physical model based on electrohydrodynamics and rheology was set up to discuss the morphology ...

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