

Numerical Simulation Of Near Field Explosion

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Numerical Simulation Of Near Field

Numerical simulations of the sediment-air-water buoyant jet released through the hopper dredgers' overflow shaft have been performed. The release of sediments into the marine environment due to skimming the excess water from the dredging vessel's hopper can lead to increased turbidity and adverse effects on the adjacent environment.

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 ...

A pyramid-type microstrip probe (PTMP) with metal tips is proposed for scanning near-field microscopes to obtain high spatial resolution of a few nanometers and high optical efficiency. Properties of an ordinary PTMP and the PTMP with a single metal tip are investigated by using a rigorous finite-integral technique simulation (MICROWAVE STUDIO package) and analyzing characteristics of working modes of the probe.

Numerical simulation of characteristics of near-field ...

Numerical simulations of near-field burst model are divided into air and explosive. A sphere of TNT explosive weighing 30 g, radius 1.638 cm, detonated in a central location to simulate the near-field burst. The 2D simplified axisymmetric computations are performed analysis on near-field burst Model, which are modelled with shell elements.

Numerical Simulation of Near-Field Explosion

Overpressure from near-field burst simulation was compared to the U. S. Army Technical Manual TM5-1300, with relative difference of 5%, for a scaled distance from 0.09 to 0.29 m/kg^{1/3}. The results...

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 ...

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Numerical Simulation Of Near Field Explosion

For validation of the model a separate numerical simulation was run for a bubble collapsing near a rigid wall in a uniform pressure field. The computed bubble shapes were compared to the...

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

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 ...

CFD simulation of near-field pollutant dispersion in the urban environment: A review of current modeling techniques ... (Gousseau et al., 2011b, 2012) and Direct Numerical Simulation (DNS) (Rossi et al., 2010). They found that the counter-gradient mechanism that governs turbulent mass transfer is

CFD simulation of near-field pollutant dispersion in the ...

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.

Numerical simulation of near-field fluorescence ...

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 ...

Combining the quantum optical properties of single-photon emitters with the strong near-field interactions available in nanophotonic and plasmonic systems is a powerful way of creating quantum ...

Fast electrical modulation of strong near-field ...

E FFECTS OF COMBUSTION PARAMETERS ON ANTIEXPLOSION PERFORMANCE: MODEL TESTS AND NUMERICAL SIMULATIONS. M INGXIN B AI, X IANGLIAN X U, H ONGXING Y ANG, M ENG X IONG, W ENQIANG Z HU, Z HAOPENG L IU, C HENHU L UO ISSN P RINT 1392-8716, ISSN O NLINE 2538-8460, K AUNAS, L ITHUANIA 595 slower in the water than that in the air. Explosion is also characterized by the phenomenon of

Effects of combustion parameters on antiexplosion ...

Internal floating-roof tanks (IFRTs) are widely used to store light oil and chemical products. However, if the annular-rim gap around the floating deck becomes wider due to abrasion and aging of the sealing arrangement, the static breathing loss from the rim gap will be correspondingly aggravated. To investigate the oil-vapor migration and emissions from an IFRT, the effects of varying both ...

Processes | Free Full-Text | Analysis of Influence of ...

This paper describes the simulation of the near-continuum hypersonic flow over a compression ramp using two-dimensional parallel direct simulation Monte Carlo (DSMC) method. Unstructured and triangular solution-based adaptive mesh depending on the local mean free path is used to improve the resolution of solution for the flow field with highly ...

Parallel particle simulation of the near-continuum ...

A large-eddy simulation (LES) study of this flow regime is pioneered by Beaudan and Moin, 15 15. P. Beaudan and P. Moin, " Numerical experiments on the flow past a circular cylinder at sub-critical Reynolds number," Report No. TF-62, Department of Mechanical Engineering, Stanford University, 1994. who employed a fifth-order one-point upwind-biased scheme for spatial discretization.

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