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Abstract. 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. Base-case simulations have been validated

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using in situ field observations.

~~Numerical Simulation of Near-Field Dredging Plumes ...~~

Numerical Simulation of Near-Field Explosion Ding-Shing Cheng¹, Cheng-Wei Hung² and Sheng-Jung Pi^{2*} 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, Taoyuan County, Taiwan, R.O.C.

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Numerical simulation of near-field fluorescence correlation spectroscopy using a fiber probe 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.

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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

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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.

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If properly validated, numerical simulations could be employed to estimate nf-HRTFs: the present study aims to validate the usage of wave-based simulations in the near-field. A thorough validation

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study is designed where various sources of error are investigated and controlled.

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@article{Decrop2015NumericalSO, title={Numerical Simulation of Near-Field Dredging Plumes: Efficiency of an Environmental Valve}, author={B. Decrop and T. Mulder and E. Toorman and M. Sas}, journal={Journal of Environmental Engineering}, year={2015}, volume={141}, pages={04015042 ...

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There is a growing interest in numerical solution of near-field thermal radiation problems in arbitrary geometries due to numerous potential applications in imaging, power generation and thermal management. Finite-difference time-domain and finite-difference frequency-domain approaches have been used for numerical simulation o

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title={Numerical Simulation of Near Field and Far Field Brine Discharge from Desalination Plants (A Case Study in Persian Gulf)}, author={Ahmad Rezaee Mazyak and M. Shafieefar and A. Shafieefar}, year={2018} }

~~Figure 10 from Numerical Simulation of Near Field and Far...~~
Simulation of near-field and far-field effects with JWL equations. To study near-field and far-field intricate effects of explosion in underwater one must have knowledge of the typical explosives in terms of their characteristics and equation of state for propagation of detonation products used.

~~Study on JWL equation of state for the numerical ...~~

ABSTRACT. A numerical simulation method based on the Ffowcs-

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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 (θ). The simulated results reveal that with θ changing from 12° to 12° , the changing curves of the maximum total sound pressure level (MTSPL) at the tip clearance region (A region), the leading edge ...

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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.

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Direct numerical simulation of the near-field dynamics of annular gas-liquid two-phase jets. / Siamas, George A.; Jiang, Xi; Wrobel, Luiz C. In: Physics of Fluids ...

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

Spatial direct numerical simulation (DNS) is used to study the near field dynamics of a buoyant diffusion flame established on a rectangular nozzle with an aspect ratio of 2:1. Combustion is represented by a one-step finite-rate Arrhenius chemistry. Without applying external perturbations at the inflow boundary, large vortical structures develop naturally in the flow field, which interact with ...

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Numerical simulation of image formation in near-field optical microscopy Baiburin, Vil B.; Avetisyan, Yuri A.; Krasnikova, Irina V. 2002-05-17 00:00:00 ABSTRACT Numerical simulation of image formation in near field optical microscopy is needed to understand a relationship between near field images and actual structure of sample since the image can be differs strongly from real structure. In order to estimate the near field image formation, two different approaches are used, namely numerical ...

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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

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