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Abstract. Numerical simulations of the sediment-air-water buoyant jet released

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Explosion 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 using in

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~~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

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Explosion and Engineering, Chung Cheng Institute of
Technology, National Defense University,
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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

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Explosion
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

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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.

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~~Numerical simulation of near-field fluorescence ...~~

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

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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

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the near-field. A thorough validation study is designed where various sources of error are investigated and controlled.

~~Numerical simulations of near-field head-related transfer ...~~

@article{Decrop2015NumericalSO,
title={Numerical Simulation of Near-Field

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**Dredging Plumes: Efficiency of an
Environmental Valve**, author={B.
Decrop and T. Mulder and E. Toorman
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Environmental Engineering},
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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-

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~~Explosion~~ domain and finite-difference frequency-domain approaches have been used for numerical simulation o

~~Numerical simulation of near field thermal radiation using ...~~

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Brine Discharge from Desalination Plants (A Case Study in Persian Gulf) @inproceedings{Mazyak2018NumericalSO, 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.

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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

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Explosion 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

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Explosion 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 (??). The simulated
results reveal that with ?? changing from

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?12° to 12°, the changing curves of the maximum total sound pressure level (MTSPL) at the tip clearance region (A region), the leading edge ...

~~Numerical simulation on near-field aerodynamic noise of an ...~~

Numerical simulation of electromagnetic

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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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~~Numerical Simulation Of Near Field Explosion~~

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-~~

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~~Explosion~~
~~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

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the inflow boundary, large vortical structures develop naturally in the flow field, which interact with ...

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

Numerical simulation of image formation in near-field optical microscopy Baiburin,

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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.

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~~Explosion~~
In order to estimate the near field image formation, two different approaches are used, namely numerical ...

~~Numerical simulation of image formation in near-field ...~~

Numerical Simulation of Vortex Roll-Up Processes Using the SSG/LRR- ω

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Explosion
Model 29 March 2016 Numerical and experimental investigation of the mean and turbulent characteristics of a wing-tip vortex in the near field

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Vortex in the Near Field~~

Numerical simulation of hydrodynamics

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Explosion
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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Numerical Simulations of Physical and Engineering Process is an edited book divided into two parts. Part I devoted to Physical Processes contains 14 chapters,

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whereas Part II titled Engineering Processes has 13 contributions. The book handles the recent research devoted to numerical simulations of physical and engineering systems. It can be treated as a bridge linking various numerical approaches of two closely inter-related branches of science, i.e. physics and

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Engineering. Since the numerical simulations play a key role in both theoretical and application oriented research, professional reference books are highly needed by pure research scientists, applied mathematicians, engineers as well post-graduate students. In other words, it is expected that the book will serve as an

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effective tool in training the mentioned groups of researchers and beyond.

This book will interest researchers, scientists, engineers and graduate students in many disciplines, who make use of mathematical modeling and computer simulation. Although it represents only a

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small sample of the research activity on numerical simulations, the book will certainly serve as a valuable tool for researchers interested in getting involved in this multidisciplinary field. It will be useful to encourage further experimental and theoretical researches in the above mentioned areas of numerical simulation.

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Near-field optics, dealing with the interaction between optical field and matter in the nanometric region, has become an interdisciplinary field spanning physics, chemistry, materials science, electrical engineering and high density data storage. This book reflects the recent

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Explosion status of this rapidly growing field. It discusses the basic theories, instrumentation, novel probes, theoretical simulations, and the application of near-field optics to the fields of condensed matter physics, new materials, information storage, atom photonics, etc. It provides an overview of the research on near-field

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Characteristics of a low-sidelobe phased array antenna are investigated using the technique of planar near-field scanning. The theory associated with the planar near-field scanning technique, with and without probe compensation, is reviewed and an

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Application of the theory is made. The design of an experimental low-sidelobe phased array antenna consisting of monopole elements which are corporate-fed using high precision transmit/receive modules is described. Accurate array radiation patterns are obtained both theoretically and experimentally using

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centerline scanning at less than one wavelength distance from the antenna. The effects of the antenna probe on the array near-field pattern, plane-wave spectrum, and far-field pattern are demonstrated theoretically using a method of moments numerical simulation. Comparisons of the array theoretical near-zone electric field

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and array received voltage due to a V-dipole near-field transmitting probe are made. It is shown that a V-dipole theoretical probe antenna can accurately model a practical near-field measurement probe consisting of an open-ended rectangular waveguide surrounded with anechoic material. (rrh).

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Numerical Simulation - from Theory to Industry is the edited book containing 25 chapters and divided into four parts. Part 1 is devoted to the background and novel advances of numerical simulation; second part contains simulation applications in the macro- and micro-electrodynamics. Part 3

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includes contributions related to fluid dynamics in the natural environment and scientific applications; the last, fourth part is dedicated to simulation in the industrial areas, such as power engineering, metallurgy and building. Recent numerical techniques, as well as software the most accurate and advanced in treating the

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physical phenomena, are applied in order to explain the investigated processes in terms of numbers. Since the numerical simulation plays a key role in both theoretical and industrial research, this book related to simulation of many physical processes, will be useful for the pure research scientists, applied

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mathematicians, industrial engineers, and
post-graduate students.

Die turbulente Rohrströmung ist nicht nur von großer Bedeutung für Anwendungen im Ingenieurbereich, sondern auch für die Grundlagenforschung von wandnaher Turbulenz. In der vorliegenden Arbeit

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Explosion wird die Interaktion sogenannter turbulenter Superstrukturen (engl.: very-large-scale motions, VLSMs) mit der kleinskaligen Wandturbulenz auf Basis der Methode der direkten numerischen Simulation untersucht. Dabei werden Schubspannungs-Reynoldszahlen bis $Re = 2880$ und Rohrlängen bis $L = 42R$

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berücksichtigt. Es wird das Konvergenz- und Skalierungsverhalten verschiedener statistischer Momente der Geschwindigkeitsverteilung untersucht und in Bezug auf VLSMs diskutiert. Die folgende Analyse der axialen Energietransportgleichung des gefilterten Geschwindigkeitsfeldes legt offen, dass

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VLSPs Energie von der mittleren Strömung zugeführt bekommen, ähnlich den kleinskaligen Strukturen durch den turbulenten Produktionsmechanismus. Die verschiedenen Terme der Energiebilanz werden sowohl anhand von mittleren Profilen, als auch instantanen Strömungsvisualisierungen und drei-

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dimensionalen Korrelationen diskutiert, wobei auch auf das Phänomen der inversen turbulenten Energiekaskade eingegangen wird. Die Forschungsarbeit gewährt dabei neue Einblicke in die Interaktion der VLSMs mit dem turbulenten Wandzyklus und trägt zum besseren Verständnis der turbulenten

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Rohrströmung bei. Turbulent pipe flow is not only of importance to engineering applications but also of fundamental interest to the study of wall-bounded turbulence. In the present work, the interaction of the so-called very-large-scale motions (VLSMs) with the near-wall, small-scale turbulence is explored by

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means of direct numerical simulation for friction Reynolds numbers up to $Re^* = 2880$ and pipe lengths up to $L = 42R$.

Besides, the convergence and the scaling of different order moments of the velocity distribution are studied and also discussed with regard to VLSMs. The subsequent analysis of the streamwise energy budget

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Equation of the filtered velocity field reveals that VLSMs obtain their energy from the mean velocity field via a production mechanism similar to the one known from the near-wall cycle.

Moreover, the different energy budget terms are investigated by means of statistical averages, instantaneous flow

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field visualisations, and three-dimensional correlations, wherein the backscattering phenomenon is also dealt with. In brief, the research sheds new light on our understanding of the interaction between VLSMs and the near-wall cycle and leads to a better grasp of turbulent pipe flow in general.

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With its inclusion of the fundamentals, systems and applications, this reference provides readers with the basics of micro energy conversion along with expert knowledge on system electronics and real-life microdevices. The authors address different aspects of energy harvesting at

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Explosion the micro scale with a focus on miniaturized and microfabricated devices. Along the way they provide an overview of the field by compiling knowledge on the design, materials development, device realization and aspects of system integration, covering emerging technologies, as well as applications in

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Explosion power management, energy storage, medicine and low-power system electronics. In addition, they survey the energy harvesting principles based on chemical, thermal, mechanical, as well as hybrid and nanotechnology approaches. In unparalleled detail this volume presents the complete picture -- and a peek into the

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Explosion -- of micro-powered microsystems.

This book is a collection of invited lectures including the 5th Nicholas Ambraseys distinguished lecture, four keynote lectures and twenty-two thematic lectures presented at the 16th European Conference on Earthquake Engineering,

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held in Thessaloniki, Greece, in June 2018. The lectures are put into chapters written by the most prominent internationally recognized academics, scientists, engineers and researchers in Europe. They address a comprehensive collection of state-of-the-art and cutting-edge topics in earthquake engineering,

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Engineering seismology and seismic risk assessment and management. The book is of interest to civil engineers, engineering seismologists, seismic risk managers, policymakers and consulting companies covering a wide spectrum of fields from geotechnical and structural earthquake engineering, to engineering seismology

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book not only the most recent advances in the state-of-the-art, but also new ideas on future earthquake engineering and resilient design of structures. Chapter 1 of this book is available open access under a CC BY 4.0 license.

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