

Modeling Water Waves with Smoothed Particle Hydrodynamics

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LONG-TERM GOALS

Smoothed Particle Hydrodynamics (SPH) is a meshless numerical method that is being developed for the study of nearshore waves and other Navy needs. The Lagrangian nature of SPH allows the modeling of wave breaking, surf zones, ship waves, and wave-structure interaction, where the free surface becomes convoluted or splash occurs.

OBJECTIVES

To improve the ability of the meshfree Lagrangian numerical method Smoothed Particle Hydrodynamics (SPH) to be a useful hydrodynamics model for breaking waves and the nearshore zone, particularly for case where spray and splash are important. To utilize the massively parallel graphics processing units on computers to develop the GPU-accelerated model GPUSPH to solve a number of problems relevant to the U.S. Navy. The science objective is to be able to accurately model the complex flows associated with breaking water waves, including instantaneous motions as well as (time-averaged) wave-induced flows, such as undertow, longshore currents, and rip currents.

APPROACH

The approach is based on improving various aspects of the SPH code, including the development of a multi-graphics processing unit (GPU) version of the code (GPUSPH); applying the code to more validation tests; and to examine in some detail new aspects of the model by applying it to different situations relevant to Navy needs.

WORK COMPLETED

- Open source version of GPUSPH released on the web: January 17, 2011
- GPUSPH model was extended to find fluid parameters at fixed (Eulerian) test points
- Further validation of nearshore modeling, including waves, a rip current system and related surf zone circulation using the test points

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Pengzhi Lin



Modeling Water Waves With Smoothed Particle Hydrodynamics:

Advances in Numerical Simulation of Nonlinear Water Waves Qingwei Ma, 2010 Ch 1 Model for fully nonlinear ocean wave simulations derived using Fourier inversion of integral equations in 3D J Grue and D Fructus ch 2 Two dimensional direct numerical simulations of the dynamics of rogue waves under wind action J Touboul and C Kharif ch 3 Progress in fully nonlinear potential flow modeling of 3D extreme ocean waves S T Grilli und weitere ch 4 Time domain simulation of nonlinear water waves using spectral methods F Bonnefoy und weitere ch 5 QALE FEM method and its application to the simulation of free responses of floating bodies and overturning waves Q W Ma and S Yan ch 6 Velocity calculation methods in finite element based MEL formulation V Sriram S A Sannasiraj and V Sundar ch 7 High order Boussinesq type modelling of nonlinear wave phenomena in deep and shallow water P A Madsen and D R Fuhrman ch 8 Inter comparisons of different forms of higher order Boussinesq equations Z L Zou K Z Fang and Z B Liu ch 9 Method of fundamental solutions for fully nonlinear water waves D L Young N J Wu and T K Tsay ch 10 Application of the finite volume method to the simulation of nonlinear water waves D Greaves ch 11 Developments in multi fluid finite volume free surface capturing method D M Causon C G Mingham and L Qian ch 12 Numerical computation methods for strongly nonlinear wave body interactions M Kashiwagi C Hu and M Sueyoshi ch 13 Smoothed particle hydrodynamics for water waves R A Dalrymple und weitere ch 14 Modelling nonlinear water waves with RANS and LES SPH models R Issa und weitere ch 15 MLPG_R method and Its application to various nonlinear water waves Q W Ma ch 16 Large Eddy simulation of the hydrodynamics generated by breaking waves P Lubin and J P Caltagirone ch 17 Recent advances in turbulence modeling for unsteady breaking waves Q Zhao and S W Armfield ch 18 Freak waves and their interaction with ships and offshore structures G F Clauss

Numerical Modeling of Water Waves Pengzhi Lin, 2008-04-30 Modelling large scale wave fields and their interaction with coastal and offshore structures has become much more feasible over the last two decades with increases in computer speeds Wave modelling can be viewed as an extension of wave theory a mature and widely published field applied to practical engineering through the use of computer tools

Geo-disaster Modeling and Analysis: An SPH-based Approach Yu Huang, Zili Dai, Weijie Zhang, 2014-08-22 Through application of the Smoothed Particle Hydrodynamics SPH method this monograph mainly focuses on large deformations and flow failure simulations of geomaterials and movement behavior which are always involved in geo disasters The work covers the theoretical background numerical techniques code implementation issues and many novel and interesting applications Two dimensional and three dimensional SPH models in the framework of both hydrodynamics and solid mechanics are established with detailed descriptions The monograph also contains many appealing and practical examples of geo disaster modeling and analysis including the fluidized movement of flow like landslides lateral spread of liquefied soils and flow slides in landfills In the documented SPH simulations the propagation of geo disasters is effectively reproduced Dynamic behaviors of geomaterials during propagation are ascertained

including sliding path flow velocity maximum distance reached and distribution of deposits In this way the monograph presents a means for mapping hazardous areas estimating hazard intensity and identifying and designing appropriate protective measures

Advances in Numerical Simulation of Nonlinear Water Waves Qingwei Ma,2010 Deals with numerical methods that have been employed to simulate nonlinear water waves This book covers important applications such as overturning waves breaking waves waves generated by landslides freak waves solitary waves tsunamis sloshing waves interaction of extreme waves with beaches and interaction with fixed structures

Numerical Modeling Of Water Waves In Coastal And Ocean Engineering Pablo Higuera,Jinghua Wang,Jie Hu,Zheng tong Yang,2023-03-16 This unique compendium introduces the field of numerical modelling of water waves The topics included the most widely used water wave modelling approaches presented in increasing order of complexity and categorized into phase averaged and phase resolving at the highest level A comprehensive state of the art review is provided for each chapter comprising the historical development of the method the most relevant models and their practical applications A full description on the method s underlying assumptions and limitations are also provided The final chapter features coupling among different models outlining the different types of implementations highlighting their pros and cons and providing numerous relevant examples for full context The useful reference text benefits professionals researchers academics graduate and undergraduate students in wave mechanics in general and coastal and ocean engineering in particular

Prediction and Simulation Methods for Geohazard Mitigation Fusao Oka,Akira Murakami,Sayuri Kimoto,2009-05-07 The last decades have shown a remarkable increase in the number of heavy rains typhoons and earthquakes These natural phenomena are the main causes for geohazards As a result the mitigation of geohazards has become a major research topic in geotechnical engineering and in recent years simulation based predictions and monitoring tools have been

3D Modeling of Nonlinear Wave Phenomena on Shallow Water Surfaces Iftikhar B. Abbasov,2018-01-31 With climate change erosion and human encroachment on coastal environments growing all over the world it is increasingly important to protect populations and environments close to the sea from storms tsunamis and other events that can be not just costly to property but deadly This book is one step in bringing the science of protection from these events forward the most in depth study of its kind ever published The analytic and numerical modeling problems of nonlinear wave activities in shallow water are analyzed in this work Using the author s unique method described herein the equations of shallow water are solved and asymmetries that cannot be described by the Stokes theory are solved Based on analytical expressions the impacts of dispersion effects to wave profiles transformation are taken into account The 3D models of the distribution and refraction of nonlinear surface gravity wave at the various coast formations are introduced as well The work covers the problems of numerical simulation of the run up of nonlinear surface gravity waves in shallow water transformation of the surface waves for the 1D case and models for the refraction of numerical modeling of the run up of nonlinear surface gravity waves at beach approach of various slopes 2D and 3D modeling of

nonlinear surface gravity waves are based on Navier Stokes equations In 2D modeling the influence of the bottom of the coastal zone on flooding of the coastal zone during storm surges was investigated Various stages of the run up of nonlinear surface gravity waves are introduced and analyzed The 3D modeling process of the run up is tested for the coast protection work of the slope type construction Useful for students and veteran engineers and scientists alike this is the only book covering these important issues facing anyone working with coastal models and ocean coastal and civil engineering in this area

Analysis and Design of Marine Structures Carlos Guedes Soares,P.K. Das,2009-03-06 Analysis and Design of Marine Structures explores recent developments in methods and modelling procedures for structural assessment of marine structures Methods and tools for establishing loads and load effects Methods and tools for strength assessment Materials and fabrication of structures Methods and tools for structural design and optimisation Structural reliability safety and environment protection The book is a valuable reference source for academics engineers and professionals involved in marine structures and design of ship and offshore structures

Numerical Modeling of Coupled Phenomena in Science and Engineering Mario César Suárez Arriaga,Jochen Bundschuh,Francisco Javier Dominguez-Mota,2008-12-01 Mathematics is a universal language Differential equations mathematical modeling numerical methods and computation form the underlying infrastructure of engineering and the sciences In this context mathematical modeling is a very powerful tool for studying engineering problems natural systems and human society This interdisciplinary book contains

Numerical Models for Submerged Breakwaters Amir Sharifahmadian,2015-11-24 Numerical Models for Submerged Breakwaters Coastal Hydrodynamics and Morphodynamics discusses the practice of submerged breakwaters an increasingly popular tool used as a coastal defense system because of their amenity and aesthetics as compared to common emerged beach protection measures The book is the perfect guide for experienced professionals who wish to keep abreast of the latest best practices or those who are entering the field and need a reference explaining new and traditional numerical methodologies for designing submerged breakwaters and measuring their performance In addition the book provides case studies examples and practical methods for data selection and pre processing model setup calibration and analysis Case studies and worked out examples illustrate different concepts and methods Offers practical methods for Data Selection and Pre Processing Provides simplified prediction tools for practical applications

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