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accuracy computing. Analysis of waves and its use in numerical methods in propagating energy at the right velocity (dispersion effects) and with right amplitude. (dissipation) are essential.

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practitioners are rediscovering waves as important in fluid flows, and capturing these numerically is central to high accuracy computing.

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Higher accuracy and higher order

methods 12. Introduction to finite

volume and finite element methods 13.

Solution of Navier–Stokes equations

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between theoretical and computational fluid dynamics and heat transfer. He has published over 100 papers in international refereed journals covering diverse topics such as transition and turbulence, unsteady aerodynamics, flow control, CFD and numerical methods, mixed convection and compressible flows.

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High-Performance Computing of Big Data for Turbulence and ...

Contents Foreword xiii Preface xvii

Chapter 1

Basic Ideas of Scientific Computing 1 1.1

Overview on Scientific Computing 1 1.2

Major Milestones in Electronic Computing 2

1.3 ...

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High Accuracy Computing Methods - GBV

The high-accuracy numerical methods used include the dynamic Smagorinsky model (DSM) for the LES subgrid-scale (SGS) turbulence model, a hybrid scheme blending a small fraction of the 1st-order upwind differencing (1UD)

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scheme and a larger fraction of the 2nd-order central differencing (2CD) scheme for calculating the convective terms in the governing equations (see Table 3 for the details), and a direct calculation of heat transfer between a fluid and a structure through thermal conduction.

High-accuracy CFD prediction

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methods for fluid and ...

High Performance Computing Laboratory (CFD Lab earlier) at the Aerospace Engineering Department of I.I.T. Kanpur - started by Prof. Tapan K Sengupta, has been an active place of research right from its inception in 1990. The emphasis of research is on developing high accuracy computing methods to aid in

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bridging the gap between theoretical and computational fluid dynamics and heat transfer.

High Performance Computing Laboratory

Furthermore, vapour-liquid interfaces – for systems with large numbers of molecules – can for this model class be

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efficiently treated using a long-range correction that was developed within the present project, yielding a high accuracy for the computed surface tension.

High Accuracy Molecular Dynamics Simulation of Fluids at ...

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FLUID FLOWS AND FLUID-FLUID
INTERACTION By Mustafa Aggul A
DISSERTATION Submitted in partial fulfillment of the requirements for the degree of DOCTOR OF PHILOSOPHY In Mathematical Sciences MICHIGAN TECHNOLOGICAL UNIVERSITY 2018

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A numerical framework for computing these flows, which has been developed in tandem with interfacial gauge methods, is also briefly discussed—the framework is based on an implicit mesh...

Interfacial gauge methods for

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incompressible fluid ...

Methods and Algorithms for Scientific Computing. Accelerated Piston Problem and High Order Moving Boundary Tracking Method for Compressible Fluid Flows. Related Databases. ... which is taken as the building block for constructing schemes with high order accuracy in both space and time.

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Accelerated Piston Problem and High Order Moving Boundary ...

High Accuracy Meshfree Methods for Weakly Compressible Fluid and Associated Applications in Laser Induced Explosive Boiling. Doctoral dissertation, Texas A & M University. Available electronically from <http://hdl.handle.net>

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High Accuracy Meshfree Methods for Weakly Compressible ...

The method is based on the notion of vital edges, and the reader is referred to the paper of Faivre et al. (2016) for more details. 12.4. Conclusions and prospects. A variety of numerical methods have

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been used to model coupled fluid flow in porous rocks. Most of these methods are adapted from methods developed in the areas of solid or fluid ...

Stability, accuracy, and efficiency of numerical methods ...

The high-accuracy schemes consist of a seven-point spatial operator coupled

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with a six-stage Runge--Kutta time-marching method. Two methods are studied, one of which produces the maximum order of accuracy and one of which is optimized for propagation distances smaller than roughly 300 wavelengths.

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SPH-flow compressible formulation is best-suited for fluid flows involving complex physics and brief dynamics, such as shocks and impacts. This formulation is especially recommended when local pressure field and free-surface accuracy matter. SPH-flow delivers the most accurate and the

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