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Computational Methods for Fluid Mechanics and Heat Transfer MEC 524, Spring 2017 Instructor: Xiaolei Yang Office: 103 Light Engineering Office Hours: 2:00pm-4:00pm Friday Phone: 2-3588 Email: xiaoleiyang@stonybrookedu Abstract Computational fluid dynamics (CFD) has been widely employed in both academia and industry for

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transfer, and related processes PREREQUISITES

Computational Fluid Mechanics And Heat Transfer Second ...

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Computational Fluid Mechanics Heat Transfer

Computational Fluid Mechanics and Heat Transfer, Second Edition (Series in Computational and Physical Processes in Mechanics and Thermal Sciences) 2nd (second) Edition by Pletcher, Richard H, Tannehill, John C, Anderson, Dale published by Taylor & Francis (1997) Hardcover 37 out of 5 stars 29 ratings See all 11

Introduction to Computational Fluid Dynamics (CFD)

Introduction to Computational Fluid Dynamics Lecture 1 - Introduction 17 Course content Introduction Fluid Mechanics and Heat Transfer Basic equations Numerical methods for ODE Numerical methods for BVP Finite difference method for PDE Case study Lid driven fluid flow Case study Differentially heated cavity Introduction to finite volume

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Lecture 3 - Conservation Equations Applied Computational ...

A fluid flow field can be thought of as being comprised of a large number of finite sized fluid particles which have mass, momentum, internal energy, and other properties Mathematical laws can then be written for each fluid particle This is the Lagrangian description of fluid motion Another view of fluid motion is the Eulerian description

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