

Günter Groß

Numerical Simulation of Canopy Flows



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**Robert E. Whitaker, Robert O.
Reid, Andrew C. Vastano**



Numerical Simulation Of Canopy Flows:

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Computational Wind Engineering
1 S. Murakami,2014-06-28 The aim of this volume is to explore the challenges posed by the rapid development of Computational Fluid Dynamics CFD within the field of engineering CFD is already essential to research concerned with fluid flow in civil engineering and its further potential for application in wind engineering is highly promising State of the art papers from all over the world are contained here illuminating the present parameters of the field as well as suggesting fruitful areas for further research Eleven papers have been contributed by invited speakers outstanding in the fields of CFD and wind engineering This volume will serve as a vehicle to promote further development in computational wind engineering

An Analysis of Drag Coefficient at Hurricane Windspeeds from a Numerical Simulation of Dynamical Water Level Changes in Lake Okeechobee, Florida Robert E. Whitaker,Robert O. Reid,Andrew C. Vastano,1975

Coherent Flow Structures at Earth's Surface Jeremy G. Venditti,James L. Best,Michael Church,Richard J. Hardy,2013-08-28 An expert review of recent progress in the study of turbulent flows with a focus on recently identified organized structures This book reviews the recent progress in the study of the turbulent flows that sculpt the Earth's surface focusing in particular on the organized structures that have been identified in recent years within turbulent flows These coherent flow structures can include eddies or vortices at the scale of individual grains through structures that scale with the flow depth in rivers or estuaries to the large scale structure of flows at the morphological or landform scale These flow structures are of wide interest to the scientific community because they play an important role in fluid dynamics and influence the transport erosion

and deposition of sediment and pollutants in a wide variety of fluid flow environments Scientific knowledge of these structures has improved greatly over the past 20 years as computational fluid dynamics has come to play an increasing important part in building our understanding of coherent flow structures across a broad range of scales Chapters comprise a series of major invited papers and a selection of the most novel innovative papers presented at the second Coherent Flow Structures Conference held August 3-5 2011 at Simon Fraser University in Burnaby British Columbia Chapters focus on six major themes Dynamics of coherent flow structures CFS in geophysical flows Interaction of turbulent flows vegetation and ecological habitats Coherent structure of atmospheric flows Numerical modeling of coherent flow structures Turbulence in open channel flows Coherent flow structures sediment transport and morphological feedbacks **Small Scale Processes**

in Geophysical Fluid Flows Lakshmi H. Kantha, Carol Anne Clayson, 2000-08-07 While ocean waves are the most visible example of oceanic mixing processes this macroscale mixing process represents but one end of the spectrum of mixing processes operating in the ocean At the scale of a typical phytoplanktonic diatom or larval fish inhabiting these seas the most important mixing processes occur on the molecular scale at the scale of turbulence Physical biological interactions at this scale are of paramount importance to the productivity of the seas fisheries and the heat balance that controls large scale ocean climate phenomena such as El Niño and tornadoes This book grew out of the need for a comprehensive treatment of the diverse elements of geophysical fluid flow at the microscale Kantha and Clayson have arranged a logical exposition of the various mixing processes operating within and between the oceans and its boundaries with the atmosphere and ocean floor The authors intent is to develop a volume that would provide a comprehensive treatment of the fundamental elements of ocean mixing so that students academics and professional fluid dynamicists and oceanographers can access this essential information from one source This volume will serve as both a valuable reference tool for mathematically inclined limnologists oceanographers and fluid modelers Simple models of oceanic and atmospheric boundary layers are discussed Comprehensive and up to date review Useful for graduate level course Essential for modeling the oceans and the atmosphere Color Plates

Flow and Transport Processes with Complex Obstructions Yevgeny A. Gayev, Julian C.R. Hunt, 2007-02-06 The NATO Advanced Study Institute Flow and Transport Processes in Complex structured Geometries from cities and vegetative canopies to engineering problems was held in Kyiv Ukraine in the period of May 4-15 2004 This book based on the papers presented there provides an overview of this new area in fluid mechanics and its applications that have developed over the past three decades The subject whose origins lie both in theory and in practice is now rapidly developing in many directions The focus of applied fluid mechanics research has steadily been shifting from engineering to environmental applications In both fields there has been great interest in the study of flows around obstacles initially single isolated obstacles and then groups together with the effects of nearby resistive surfaces such as the walls of a pipe the ground or a free surface in hydraulics Simplified theoretical analysis began with studies of axisymmetric and cylindrical free mounted bodies However other methods had to be

used for quantifying the complete flow fields past arbitrary bluff bodies either by using experiments or when powerful computers became available by direct calculation and solution of the full equations of fluid dynamics. In most practical cases the Reynolds numbers are too large to compute all the small scale eddy motions which therefore have to be described statistically.

Large Eddy Simulations of Canopy Flows Over Complex Terrain Yulong Ma, 2019 Forest canopies cover about 30% of the land surfaces some of which are hilly or mountainous. Both complex terrain and forest canopies influence mean flow and turbulence playing a critical role in affecting momentum and scalar transfer. Although recent advances have been made in numerical simulations of canopy flows few have been conducted over steep slope terrain and considered full sets of physical and physiological processes in sub canopy layers which greatly limits our understanding of canopy flows and scalar transfer. To address this limitation we upgrade the Weather Research and Forecasting model with the large eddy simulations module WRF LES by incorporating the immersed boundary method IBM to improve the simulations over steep slope terrain. In addition an advanced multiple layer canopy module MCANOPY is developed based largely on the Community Land Model version 4.5 and coupled with WRF LES to simulate sources and or sinks of momentum heat water vapor and CO₂ across multiple canopy layers. Both IBM and MCANOPY are evaluated against field measurements demonstrating good performances compared with observations. The updated modeling system i.e. WRF LES IBM MCANOPY is then applied over a forest edge to investigate the effects of foliage distributions and scalar distributions on canopy flows and scalar transfer. The results show that foliage distributions have a significant impact on the flow dynamics and scalar transfer mainly due to the sub canopy jet. The scalar distributions affect the scalar field with the ground source being the most important. The modeling system also simulates flows over forested hills. Flow dynamics over a three dimensional hill show a different feature to those over a two dimensional hill where much large turbulence structures are simulated in the lee of a three dimensional hill. Simulations over different slope hills demonstrate significant impacts of slopes. The lee side turbulence is enhanced as the hill slope increases. A new flow feature is the nearly unvarying flow field within the canopy in the lee of a steep slope hill subjected to the influence of foliage distributions. Our upgraded WRF LES IBM MCANOPY system has demonstrated promising capacities in many applications such as wind turbine siting wildfire propagation prediction and interpretation of eddy covariance data over complex landscapes.

Predicting, Monitoring, and Assessing Forest Fire Dangers and Risks Baranovskiy, Nikolay Viktorovich, 2019-12-27 To understand the catastrophic processes of forest fire danger different deterministic probabilistic and empiric models must be used. Simulating various surface and crown forest fires using predictive information technology could lead to the improvement of existing systems and the examination of the ecological and economic effects of forest fires in other countries. Predicting Monitoring and Assessing Forest Fire Dangers and Risks provides innovative insights into forestry management and fire statistics. The content within this publication examines climate change thermal radiation and remote sensing. It is designed for fire investigators forestry technicians emergency managers.

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