

Springer Tracts in Mechanical Engineering

Esteban Ferrer
Adeline Montlaur *Editors*

CFD for Wind and Tidal Offshore Turbines

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CFD for Wind and Tidal Offshore Turbines Esteban Ferrer, Adeline Montlaur, 2015-06-09 The book encompasses novel CFD techniques to compute offshore wind and tidal applications Computational fluid dynamics CFD techniques are regarded as the main design tool to explore the new engineering challenges presented by offshore wind and tidal turbines for energy generation The difficulty and costs of undertaking experimental tests in offshore environments have increased the interest in the field of CFD which is used to design appropriate turbines and blades understand fluid flow physical phenomena associated with offshore environments predict power production or characterise offshore environments amongst other topics *Recent Advances in CFD for Wind and Tidal Offshore Turbines* Esteban Ferrer, Adeline Montlaur, 2019 The

book presents novel Computational Fluid Dynamics CFD techniques to compute offshore wind and tidal applications The papers in this volume are based on a mini symposium held at ECCOMAS 2018 Computational fluid dynamics CFD techniques are regarded as the main design tool to explore the new engineering challenges presented by offshore wind and tidal turbines for energy generation The difficulty and costs of undertaking experimental tests in offshore environments have increased the interest in CFD which is used to design appropriate turbines and blades understand fluid flow physical phenomena associated with offshore environments predict power production or characterise offshore environments amongst other topics *Recent Advances in CFD for Wind and Tidal Offshore Turbines* Esteban Ferrer, Adeline Montlaur, 2019-02-06

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Luczak, 2016-08-30 This book provides a holistic interdisciplinary overview of offshore wind energy and is a must read for advanced researchers Topics from the design and analysis of future turbines to the decommissioning of wind farms are covered The scope of the work ranges from analytical numerical and experimental advancements in structural and fluid mechanics to novel developments in risk safety reliability engineering for offshore wind The core objective of the current work is to make offshore wind energy more competitive by improving the reliability and operations and maintenance O M strategies of wind turbines The research was carried out under the auspices of the EU funded project MARE WINT The project provided a unique opportunity for a group of researchers to work closely together undergo multidisciplinary doctoral training and conduct research in the area of offshore wind energy generation Contributions from expert external authors are

also included and the complete work seeks to bridge the gap between research and a rapidly evolving industry

Optimization for Control, Observation and Safety Guillermo Valencia-Palomo, Francisco-Ronay

López-Estrada, Damiano Rotondo, 2020-04-01 Mathematical optimization is the selection of the best element in a set with respect to a given criterion Optimization has become one of the most used tools in control theory to compute control laws adjust parameters tuning estimate states fit model parameters find conditions in order to fulfill a given closed loop property among others Optimization also plays an important role in the design of fault detection and isolation systems to prevent safety hazards and production losses that require the detection and identification of faults as early as possible to minimize their impacts by implementing real time fault detection and fault tolerant systems Recently it has been proven that many optimization problems with convex objective functions and linear matrix inequality LMI constraints can be solved easily and efficiently using existing software which increases the flexibility and applicability of the control algorithms Therefore real world control systems need to comply with several conditions and constraints that have to be taken into account in the problem formulation which represents a challenge in the application of the optimization algorithms This book offers an overview of the state of the art of the most advanced optimization techniques and their applications in control engineering

Adaptive CFD Wind Turbine Analysis R. Stringer, University of the West of England, 2007 **CFD Techniques and**

Energy Applications Zied Driss, Brahim Necib, Hao-Chun Zhang, 2018-02-22 This book focuses on CFD Computational Fluid Dynamics techniques and the recent developments and research works in energy applications It is devoted to the publication of basic and applied studies broadly related to this area The chapters present the development of numerical methods computational techniques and case studies in the energy applications Also they offer the fundamental knowledge for using CFD in energy applications through new technical approaches Besides they describe the CFD process steps and provide benefits and issues for using CFD analysis in understanding the flow complicated phenomena and its use in the design process The best practices for reducing errors and uncertainties in the CFD analysis are further described The book reveals not only the recent advances and future research trends of CFD Techniques but also provides the reader with valuable information about energy applications It aims to provide the readers such as engineers and PhD students with the fundamentals of CFD prior to embarking on any real simulation project Additionally engineers supporting or being supported by CFD analysts can take advantage from the information of the book's different chapters

CFD for Atmospheric Flows and Wind Engineering J. P. A. J. van Beeck, S. Buckingham, 2021 *A CFD Study of Fluid-structure Interaction Problems for Floating Offshore Wind Turbines* Yuanchuan Liu, 2018

CFD Techniques and Thermo-Mechanics Applications Zied Driss, Brahim Necib, Hao-Chun Zhang, 2018-02-05 This book focuses on CFD Computational Fluid Dynamics techniques and the recent developments and research works in thermo mechanics applications It is devoted to the publication of basic and applied studies broadly related to this area The chapters present the development of numerical methods computational

techniques and case studies in the thermo mechanics applications They offer the fundamental knowledge for using CFD in real thermo mechanics applications and complex flow problems through new technical approaches Also they discuss the steps in the CFD process and provide benefits and issues when using the CFD analysis in understanding of complicated flow phenomena and its use in the design process The best practices for reducing errors and uncertainties in CFD analysis are also discussed The presented case studies and development approaches aim to provide the readers such as engineers and PhD students the fundamentals of CFD prior to embarking on any real simulation project Additionally engineers supporting or being supported by CFD analysts can benefit from this book

Design of Francis Turbine and OpenFOAM Methods

Zhiwei Guo, Sailesh Chitrakar, Zhongdong Qian, Bhola Thapa, 2025-03-17 This book provides a comprehensive guide for academics and industry professionals on designing and optimizing hydraulic turbines with a particular focus on Francis turbines The book covers the main dimensions of Francis turbines including runners guide vanes and distributors The authors have selected OpenFOAM a free open source CFD software for readers to perform simulations While there is some existing literature on the topic this book distinguishes itself by going into detail on the three phases of CFD methods The authors also describe step by step how to create a new solver for hydraulic machines to account for sediment erosion The content is presented in an easy to understand manner to help readers quickly grasp the material The book is accessible to specialists in relevant fields as well as undergraduate and graduate students researchers and other professionals interested in designing a suitable Francis turbine or simulating multiphase flow fields for rotating machines

CFD Simulation of Wave Run-up on an Offshore Wind Turbine Foundation by Using a Piston Type Wave-Maker Over a Sloping Bottom, 2021

Cartesian CFD Methods for Complex Applications Ralf Deiterding, Margarete Oliveira Domingues, Kai Schneider, 2021-02-18 This volume collects the most important contributions from four minisymposia from ICIAM 2019 The papers highlight cutting edge applications of Cartesian CFD methods and describe the employed algorithms and numerical schemes An emphasis is laid on complex multi physics applications like magnetohydrodynamics combustion aerodynamics with fluid structure interaction solved with various discretizations e g finite difference finite volume multiresolution or lattice Boltzmann CFD schemes Software design aspects and parallelization challenges are also considered The book is addressed to graduate students and scientists in the fields of applied mathematics and computational engineering

Simulating The Hydrodynamics Of Offshore Floating Wind Turbine Platforms In A Finite Volume Framework Maija Benitz, 2016 There is great potential for the growth of wind energy in offshore locations where the structures are exposed to a variety of loading from waves current and wind A variety of computer aided engineering CAE tools based largely on engineering models employing potential flow theory and or Morison s equation are currently being used to evaluate hydrodynamic loading on floating offshore wind turbine platforms While these models are computationally inexpensive they include many assumptions and approximations Alternatively high fidelity computational fluid dynamics models contain almost no assumptions but at the

cost of high computational expense In this work CFD simulations provide detailed insight into the complex fluid flow that has not been captured experimentally nor can be attained with reduced order models This work includes a thorough validation of the various CFD toolboxes necessary for simulating offshore floating wind turbine platforms in the ocean environment from numerical wave propagation to fluid structure interactions The fundamental physics of flow around complex structures is examined through various studies to better understand the effects of a fluid interface truncated ends structure size multi member arrangements and environmental conditions These factors are explored in terms of drag lift and frequency of the loads Additionally motion of structures in free decay tests and waves are investigated The work provides insight into the complex fluid flow around floating offshore structures of small draft in a variety of environmental conditions CFD simulations are used to assess assumptions and approximations of reduced order engineering models and explain why and in which conditions these models perform inaccurately Finally the work provides suggestions for improvements to engineering tools often used for hydrodynamics modeling of floating offshore wind turbines

CFD for Horizontal Axis Wind Turbines
Sugoi Gómez-Iradi,2009 **Analysis of Floating Offshore Wind Turbine Hydrodynamics Using Coupled CFD and**

Multibody Methods Friedemann Beyer,Matthias Arnold,Po Wen Cheng,2013 **CFD Simulation of Long Slender Offshore Structures at High Reynolds Number** Abiodun Timothy Olaoye,2019 Slender cylindrical structures are common in many offshore engineering applications such as floating wind turbines and subsea risers These structures are vulnerable to flow induced vibrations under certain environmental conditions which impacts their useful life Flow induced vibrations have been widely studied both experimentally and numerically especially at low Reynolds number However many questions remain unanswered in detail regarding the effects of high Re on structural responses and fluid structure interaction FSI phenomena such as lock in for different design configurations Furthermore under realistic environmental conditions the oncoming flow velocity profile may not be uniform In such scenarios effects of large changes in Re along span on nature of structural responses may be significant This research project is focused on computational fluid dynamics CFD simulation of slender structures under realistic oncoming ocean currents with relatively higher Reynolds number Re 10 000 compared to existing literature Computational methods for investigating FSI phenomena are limited by high Reynolds number complex flow profiles low mass ratio and large aspect ratio of structures Despite these challenges numerical approach potentially offers more detailed analysis and ease of parameter tuning to investigate unique cases too expensive to conduct in experiments Therefore advances in research is increasingly supported by numerical modeling In the framework of Fourier Spectral hp element method implemented in NEKTAR code an entropy based viscosity method EVM was employed to account for turbulence effects not captured by the numerical grid and fictitious added mass method was utilized in the structure solver to handle low mass ratio problems Also the mapping enabled smoothed profile method SPM in addition to already stated techniques was used to simulate cases involving buoyancy modules A thorough verification and validation of the

current algorithms was carried out for stationary cylinders with uniform cross sections flexibly mounted rigid cylinders and flexible cylinders Major contributions include EVM enabled simulations of dynamic responses of flexibly mounted rigid cylinders with low mass ratio in higher Reynolds number uniform flows $Re \ 140\ 000$ compared with existing literature thereby yielding numerically novel response maps The new results provide more insights on the role of Re in amplitude responses and FSI phenomena associated with vortex induced vibrations in practical applications Another major contribution is the investigation in detail of complex flows past a flexible cylinder at $Re_{subscript\ max}$ *BEMT and CFD-based Unsteady Aerodynamic Analyses of Floating Offshore Wind Turbine* Lin Lin, 2016 Nowadays the demands for floating offshore wind FOWT have exceeded 5MW with the rapidly growing wind market The aerodynamic environment of FOWT is more complex than onshore or fixed offshore wind turbine due to the large motions of floating platforms The platform motion especially pitch and surge motions increase aerodynamic unsteadiness wake interactions and other complex flow phenomena These conditions influence the velocities and accelerations at the rotor sections along the blade However a limited simulation and load estimation capability make aerodynamic analysis a challenge It is questionable whether some industry aerodynamic analysis codes like conventional Blade Element Momentum BEM theory and Generalised Dynamic Wake theory are accurate Results indicate that current methods for predicting the aerodynamic loads may be inadequate Aerodynamic flow effects cannot be accurately modelled using traditional BEM theory with common corrections in such a complex condition So compared with traditional potential theory CFD method provides more physically realistic simulation The applying and validation of CFD method will be outlined in this dissertation The commercial multi purpose CFD solver STAR CCM 9 02 is employed for calculation of the flow using Reynolds Average Navier Stokes RANS equations in conjunction with different turbulent models Finally results from CFD simulations of various offshore floating wind turbines under different load conditions will be presented CFD simulation is accurate but time consuming So an optimization method will be detected to get a more accurate result and saving time 2D CFD RANS data was instead of commonly 2D data However not result in the desired improvements when compared to BEM results Therefore a 2D airfoil data obtained by post processing of 3D CFD computations was used 3D results were used to estimate 2D airfoil characteristics to modify two important parameters in BEM codes the axial and the tangential induction factors by applying the reduced axial velocity method by getting the local angle of attack from CFD solutions This thesis will demonstrate that the aerodynamics of offshore floating wind turbines is sufficiently different from conventional offshore and onshore wind turbines warranting the use of higher fidelity analysis approaches It is obvious that the platform motions will have a great effect on unsteady aerodynamic performance of the wind turbine rotor This thesis will study and explain the rules and reasons of this phenomenon in detail Future offshore floating wind turbine designs should strive to either minimize platform motions or be complementarily optimized via higher fidelity aerodynamic analysis techniques to account for them It is believed that this dissertation is the first in depth study of

offshore floating wind turbine aerodynamics and the applicability of various analysis methods

Simplified CFD

Modelling of Tidal Turbines for Exploring Arrays of Devices Mulualem G. Gebreslassie,2012

Computational Fluid

Dynamics (CFD) Study of Wind Turbine Elements Mei Mei Tan,2015

Cfd For Wind And Tidal Offshore Turbines Springer Tracts In Mechanical Engineering Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Cfd For Wind And Tidal Offshore Turbines Springer Tracts In Mechanical Engineering**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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