



Computational Fluid Dynamics In Building Design

**Qingyan Chen,Zhiqiang Zhai,Xueyi
You,Tengfei Zhang**



Computational Fluid Dynamics In Building Design:

The Role of Animation in Building Design Richard Chitty, Chunli Cao, 2014 Understand how computational fluid dynamics CFD is applied to building design This guide for non experts gives guidance on best practice focussing on fire safety ventilation thermal comfort and wind movement around buildings

The Application of Using Computational Fluid Dynamics (CFD) to Modern Building Design Mahdi Afkhamiaghda, 2017 *Computational Fluid Dynamics for Built and Natural Environments* Zhiqiang (John) Zhai, 2019-08-24 This book introduces readers to the fundamentals of simulating and analyzing built and natural environments using the Computational Fluid Dynamics CFD method CFD offers a powerful tool for dealing with various scientific and engineering problems and is widely used in diverse industries This book focuses on the most important aspects of applying CFD to the study of urban buildings and indoor and outdoor environments Following the logical procedure used to prepare a CFD simulation the book covers e g the governing equations boundary conditions numerical methods modeling of different fluid flows and various turbulence models Furthermore it demonstrates how CFD can be applied to solve a range of engineering problems providing detailed hands on exercises on air and water flow heat transfer and pollution dispersion problems that typically arise in the study of buildings and environments The book also includes practical guidance on analyzing and reporting CFD results as well as writing CFD reports papers

Computational Fluid Dynamics Hyoung Woo Oh, 2010-01-01 This book is intended to serve as a reference text for advanced scientists and research engineers to solve a variety of fluid flow problems using computational fluid dynamics CFD Each chapter arises from a collection of research papers and discussions contributed by the practiced experts in the field of fluid mechanics This material has encompassed a wide range of CFD applications concerning computational scheme turbulence modeling and its simulation multiphase flow modeling unsteady flow computation and industrial applications of CFD

Developing an Integrated Building Design Tool by Coupling Building Energy Simulation and Computational Fluid Dynamics Programs Zhiqiang Zhai, 2003 Cont through practical design projects Finally sensitivity analysis of the coupling simulation to building characteristics and coupling strategies has been performed based on which general guidelines are established for appropriate usage of the coupling simulation

Advances of Computational Fluid Dynamics in Nuclear Reactor Design and Safety Assessment Jyeshtharaj Joshi, Arun K. Nayak, 2019-06-09 Advances of Computational Fluid Dynamics in Nuclear Reactor Design and Safety Assessment presents the latest computational fluid dynamic technologies It includes an evaluation of safety systems for reactors using CFD and their design the modeling of Severe Accident Phenomena Using CFD Model Development for Two phase Flows and Applications for Sodium and Molten Salt Reactor Designs Editors Joshi and Nayak have an invaluable wealth of experience that enables them to comment on the development of CFD models the technologies currently in practice and the future of CFD in nuclear reactors Readers will find a thematic discussion on each aspect of CFD applications for the design and safety assessment of Gen II to Gen IV reactor concepts that will help them

develop cost reduction strategies for nuclear power plants Presents a thematic and comprehensive discussion on each aspect of CFD applications for the design and safety assessment of nuclear reactors Provides an historical review of the development of CFD models discusses state of the art concepts and takes an applied and analytic look toward the future Includes CFD tools and simulations to advise and guide the reader through enhancing cost effectiveness safety and performance optimization

Advanced Building Simulation Ali Malkawi, Godfried Augenbroe, 2004-07-29 This book introduces recent advances in building simulation and outlines its historic development Two important topics are described uncertainty in simulation and coupled simulations which are both closely linked to attempts to improve control and accuracy This is followed by coverage of wind simulations and predictions and then by an introduction to current systems and phenomenological modelling Written by leading experts in the field both in the US and Europe *Advanced Building Simulation* is an excellent graduate level student textbook as well as a practical guide for architects engineers and other construction professionals

Buildings and Wind Stephanie Fleming, 2015 There is a reciprocal relationship between wind and buildings as they each affect the other Building form affects wind by altering its speed and flow patterns and can be used to create desirable wind conditions around the building Wind in turn exerts load on the building which can be reduced with aerodynamic forms and resisted with structural systems This establishes a relationship between wind conditions the building form that creates these wind conditions and the structure that stabilizes the form against these wind conditions This relationship is investigated through the development of a design methodology that allows architects to consider in the early design stages how wind and buildings affect each other The thesis does not serve to propose a building rather it will use a building as a means for developing this method The method consists of a pairing of computational fluid dynamics CFD software and finite element analysis FEA software While this pairing has not been widely explored within the context of architectural design the combined use of these software programs allows architects to integrate wind engineering considerations into their current architectural practices without having to acquire extensive engineering knowledge Software also provides architects with a means of quickly testing multiple design iterations in relation to these engineering considerations because the software can perform engineering calculations or simulations much faster than if the architect were to learn and perform these calculations themselves For each building design iteration CFD software is used to simulate the speeds and patterns of wind flow around the initial building form design This tests the appropriateness of the wind conditions for the exterior programs that must be accommodated around the building The speed with which these results are provided allows the architect to refine and re test many iterations of their design until the building form creates the desired wind conditions The CFD software is then used to evaluate the aerodynamics of the building form by providing information about the wind pressure that is exerted on each building face The architect can change the building form to reduce the wind pressure acting on it and then re test the form with the CFD software to ensure that improved aerodynamics have been

achieved without compromising the surrounding wind conditions Then the wind pressure information that is provided by the CFD software is input into the FEA software to predict how the building will react to combined wind and gravity loading This information informs the schematic design of the building s structural system which is developed through another iterative process using the FEA software The production of accurate wind and structural data is not the goal of this thesis since accurate results are not currently available due to software limitations Instead this thesis seeks to develop a design method that will increase in accuracy as CFD and FEA software programs continue to be improved In the future CFD and FEA software programmers could potentially draw from this method to create programs that can be used together to allow architects to consider wind as a generator of architectural form within a streamlined software based workflow **Snow**

Engineering: Recent Advances I. Izumi,T. Nakamura,R.L. Sack,1997-01-01 The objective of the conference was to provide a forum for engineers architects and scientists to discuss a broad range of research and design methods for various problems related to snow engineering Specialists in building and civil engineering environmental engineering energy engineering urban planning and regional development as well as snow scientists were brought together for the conference The technical sessions were in five thematic areas as follows Snow technology and science Building and construction engineering Infrastructure and transportation Housing and residential planning Development strategy in snow countries The 115 papers provide keys to realize more comfortable living conditions in snow countries and to overcome many problems in heavy snow regions **Inverse Design Methods for the Built Environment** Qingyan Chen,Zhiqiang Zhai,Xueyi You,Tengfei

Zhang,2017-07-14 The inverse design approach is new to the built environment research and design community though it has been used in other industries including automobile and airplane design This book from some of the pioneers of inverse design applications in the built environment introduces the basic principles of inverse design and the specific techniques that can be applied to built environment systems The authors inverse design concept uses the desired enclosed environment as the design objective and inversely determines the systems required to achieve the objective The book discusses a number of backward and forward methods for inverse design Backward methods such as the quasi reversibility method the pseudo reversibility method and the regularized inverse matrix method can be used to identify contaminant sources in an enclosed environment However these methods cannot be used to inversely design a desired indoor environment Forward methods such as the computational fluid dynamics CFD based genetic algorithm GA method the CFD based adjoint method the CFD based artificial neural network ANN method and the CFD based proper orthogonal decomposition POD method show the promise in the inverse design of airflow and heat transfer in an enclosed environment The book describes the fundamentals of the methods for beginners provides exciting design examples for the reader to duplicate discusses the pros and cons of each design method and points out the knowledge gaps for further development *Proceedings of the ... American Solar Energy Society Annual Conference* American Solar Energy Society. Conference,2000 Computational Technologies for

Applications in Green Design Maher Al-Baghdadi,2014-01-03 The term green design or green engineering has become ubiquitous in recent years with references even on the covers of trade journals and magazines With simulation and analysis going green offers many benefits Green design defines as the design commercialization and use of processes and products that are feasible and economical while reducing the generation of pollution at the source and minimizing the risk to human health and the environment So while green engineering encompasses environmental engineering it also can refer to any engineering field in which environmental and human health impacts are minimized Increasingly the term has become associated with sustainable development in which processes and products can continue to be produced indefinitely with a minimum of resource depletion or environmental degradation Evidence is mounting that the impetus for going green and developing environmentally sustainable products is moving away from mere regulatory compliance to the realization that a significant new business opportunity is at hand The realization marks a dramatic opinion shift Today many manufacturers see that developing sustainable products offers a sustainable competitive advantage Along with increased awareness of environmental impact well known corporations have launched campaigns that show how they are developing green technologies Major companies believe there is money to be made in developing environmentally friendly technology which should encourage even the most contrarian environmentalist Computational Fluid Dynamics CFD is the science of predicting fluid flow heat transfer mass transfer phase change chemical reaction mechanical movement stress or deformation of related solid structures and related phenomena by solving the mathematical equations that govern these processes using a numerical algorithm on a computer The results of CFD analyses are relevant in conceptual studies of new designs detailed product development troubleshooting and redesign CFD analysis complements testing and experimentation by reduces the total effort required in the experiment design and data acquisition CFD complements physical modelling and other experimental techniques by providing a detailed look into our fluid flow problems including complex physical processes such as turbulence chemical reactions heat and mass transfer and multiphase flows In many cases we can build and analyze virtual models at a fraction of the time and cost of physical modelling This allows us to investigate more design options and what if scenarios than ever before Moreover flow modelling provides insights into our fluid flow problems that would be too costly or simply prohibitive by experimental techniques alone The added insight and understanding gained from flow modelling gives us confidence in our design proposals avoiding the added costs of over sizing and over specification while reducing risk The use of Computational Fluid Dynamics to simulate engineering phenomena continues to grow throughout many engineering disciplines On the back of ever more powerful computers and graphical user interfaces CFD provides engineers with a reliable tool to assist in the design of industrial equipment often reducing or eliminating the need for performing trial and error experimentation The chapters in this book testify to the vitality of engineering CFD research and

demonstrate the considerable potential for use of these techniques in the future The book is intended to serve as a reference for both researchers and postgraduate students Building Design and Development in Hong Kong Division of Building Science and Technology,2003 The property market has always been a major driving force behind Hong Kong s economy By providing a quality living and working environment property development plays a significant role for Hong Kong to retain its position as an international metropolis This book covers a wide range of topics on the building design and property development practice in Hong Kong The process of property development from inception to completion is complicated including territorial planning building design submission procedures tendering and construction This volume focuses on three areas 1 Property Planning 2 Design and Management and 3 Construction and Maintenance Readers will be benefited from the diversity in expertise and experience of authors from a multi disciplinary team of planners architects engineers surveyors and builders Their concerted efforts give readers a broad view of the design and construction process in Hong Kong Architecture and Building Materials Xue Jun Zhou,2011-09-08 Selected peer reviewed papers from the 2011 International Conference on Civil Engineering and Transportation ICCET 2011 14 16 October 2011 Jinan China *ECPPM 2022 - eWork and eBusiness in Architecture, Engineering and Construction 2022* Eilif Hjelseth,Sujesh F. Sujan,Raimar J Scherer,2023-03-29 ECPPM 2022 eWork and eBusiness in Architecture Engineering and Construction contains the papers presented at the 14th European Conference on Product Process Modelling ECPPM 2022 Trondheim Norway 14 16 September 2022 and builds on a long standing history of excellence in product and process modelling in the construction industry which is currently known as Building Information Modelling BIM The following topics and applications are given special attention Sustainable and Circular Driven Digitalisation Data Driven Design and or Decision Support Assessment and Documentation of Sustainability Information lifecycle Data Management Collection Processing and Presentation of Environmental Product Documentation EPD and Product Data Templates PDT Digital Enabled Collaboration Integrated and Multi Disciplinary Processes Virtual Design and Construction VDC Production Metrics Integrated Concurrent Engineering Lean Construction and Information Integration Automation of Processes Automation of Design and Engineering Processes Parametric Modelling and Robotic Process Automation Expert Systems BIM based model and compliance checking Enabling Technologies Machine Learning Big Data Artificial and Augmented Intelligence Digital Twins Semantic Technology Sensors and IoT Production with Autonomous Machinery Robotics and Combinations of Existing and New Technical Solutions Frameworks for Implementation International Information Management Series ISO 19650 and Other International Standards ISO European CEN and National Standards Digital Platforms and Ecosystems Human Factors in Digital Application Digital Innovation Economy of Digitalisation Client Organisational Team and or Individual Perspectives Over the past 25 years the biennial ECPPM conference proceedings series has provided researchers and practitioners with a unique platform to present and discuss the latest developments regarding emerging BIM technologies and complementary issues for their adoption in

the AEC FM industry *Digital Processes* Moritz Hauschild, Rüdiger Karzel, 2012-12-10 these days a computer is as much a part of every household's standard equipment as a refrigerator and yet the explosion of computer technology in the last several decades has transformed the daily life of every member of society far more than even utopians would ever have allowed themselves to dream No wonder then that from design to production architecture too is becoming more and more subject to digital influences The range of those influences stretches from the classical computer programs used in design and presentation to media supported design processes all the way to computerized production techniques to say nothing of industrialized bricklayer robots From measurement to planning and production architecture is the product of a closely coordinated digital process chain What influence do digital design digital design and production methods have on contemporary architecture How are these methods changing architecture and the way it is created Where does the potential of digital media for architecture lie What are the areas in which every individual firm can begin to use them What are the advantages of working electronically How and at what cost can these methods be integrated into the day to day work of the professional architect This publication offers answers to these and many other questions on all aspects of the digital design and construction process **Proceedings of the ASME Fluids Engineering Division Summer Conference, 2006:**

Forums American Society of Mechanical Engineers. Fluids Engineering Division, 2006 Computational Fluid Dynamics: An Introduction to Modeling and Applications Imane Khalil, Issam Lakkis, 2023-03-03 A new approach to CFD that leverages modeling software and is light on math This concise highly illustrated resource gets you started using a new streamlined method for approaching Computational Fluid Dynamics CFD that utilizes commercial software and requires minimal mathematical computations Developed from curricula taught by the authors Computational Fluid Dynamics An Introduction to Modeling and Applications shows how to use high powered numerical analyses and data structures to analyze and solve problems that involve fluid flows and heat transfer You will learn how to use the latest computer programs such as Fluent to perform the complex calculations required Coverage includes Conservation laws in thermal fluid sciences The finite volume method Two dimensional steady state laminar incompressible fluid flow Three dimensional steady state turbulent incompressible fluid flow Convection heat transfer for two dimensional steady state incompressible flow Three dimensional fluid flow and heat transfer modeling in a heat exchanger Three dimensional fluid flow and heat transfer modeling in a heat sink Solving the linear and non linear system of equations Methods for solving Navier Stokes equations And much more

Building Design for Wind Forces: A Guide to ASCE 7-16 Standards Rima Taher, 2018-08-24 Expert coverage of ASCE 7-16 compliant wind resistant engineering methods for safer sounder low rise and standard multi story buildings Using the hands on information contained in this comprehensive engineering guide you will be able to design and construct safer buildings that will better withstand extreme wind forces Written by a recognized structural design expert the book explains the general concepts and principles involved in the design of buildings and structures for wind forces Structural systems

used to resist wind forces are outlined and explained in the context of both low rise and high rise buildings Building Design for Wind Forces provides easy to follow summaries of complex ASCE 7 16 wind load provisions and shows how to apply the corresponding design procedures using practical examples A detailed discussion of typical structural damage caused by extreme wind events such as hurricanes and tornadoes is presented along with design recommendations Current wind engineering activities and recent research developments are discussed and a general overview of wind tunnel procedures and an introduction to the concept of database assisted design DAD is provided Building Design for Wind Forces covers Wind forces and wind effects on buildings and structures Wind load provisions of the ASCE 7 16 standard Damage to structures caused by extreme wind events Wind engineering activities and research trends Structural systems for lateral loads Tall buildings Wind design procedures and wind load parameters Wind loads on the Main Wind Force Resisting System MWFRS Wind loads on Components and Cladding C C Wind loads on building appurtenances and other structures Wind tunnels and the wind tunnel procedure Database assisted design DAD

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