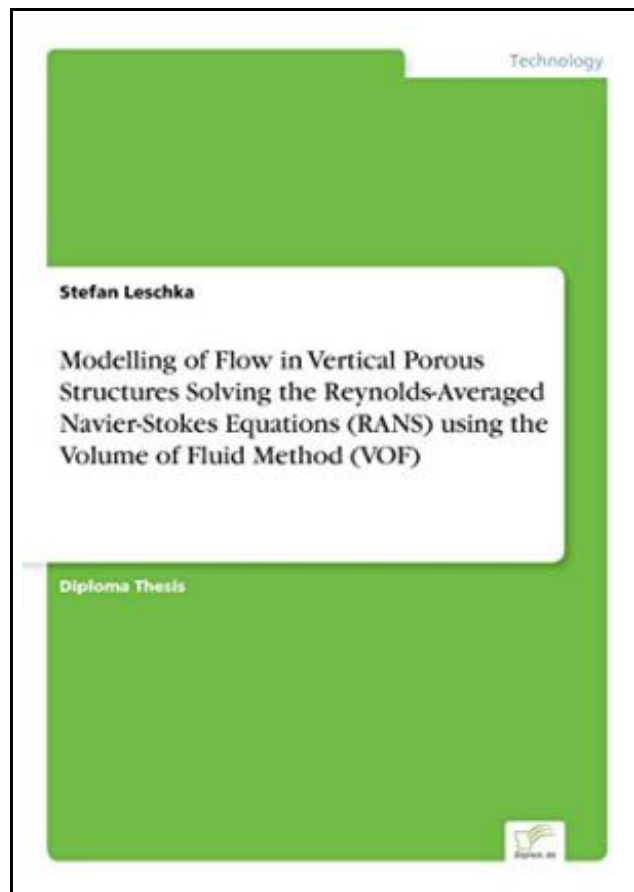


Modelling of Flow in Vertical Porous Structures Solving the Reynolds-Averaged Navier-Stokes Equations Rans Using the Volume of Fluid Method Vof



Filesize: 7.76 MB

Reviews

Extensive manual for publication fans. I have read through and so i am sure that i am going to going to read once again yet again in the future. I am pleased to let you know that this is actually the best pdf i actually have read through inside my very own existence and may be he very best publication for ever.

(Mrs. Trinity Boyer)

MODELLING OF FLOW IN VERTICAL POROUS STRUCTURES SOLVING THE REYNOLDS-AVERAGED NAVIER-STOKES EQUATIONS RANS USING THE VOLUME OF FLUID METHOD VOF

DOWNLOAD



Diplom.de. Paperback. Book Condition: New. Paperback. 102 pages. Dimensions: 10.4in. x 7.4in. x 0.2in. Diplomarbeit, die am 30. 11. 2001 erfolgreich an einer Technische Universität in Deutschland im Fachbereich Bauingenieurwesen eingereicht wurde. Abstract: In this thesis the simulation of the flow in alpha vertical permeable structure with alpha free surface is described. The underlying physical data had been achieved from experiments in a wave flume at the University of Cantabria. For the calibration of the numerical model COBRAS, a VOF type programme developed at Cornell University, the numerical results are compared with the laboratory data. The data analysed comes from 8 free surface sensors, placed inside and outside of the porous structure, and 4 pressure sensors, placed on the impermeable back wall inside the porous structure. An error analysis, using the least square technique, lead to a stepwise improvement of the numerical and the porous media parameters. In this process various grids had been tested, concerning sponge layer length, source function position and cell size. Later the porous media parameter for laminar and turbulent flow had been adjusted. For various wave conditions and porous structure characteristics, the optimal values for these parameters turned out to lay between 0 and 200 for alpha and between 0. 45 and 0. 8 for beta. The following error analysis yielded to alpha 100 and beta 0. 5 usable for all tested wave and porous media characteristics. Table of Contents: 1. Introduction 1. 1 General Introduction 1. 2 Aims of study 3 1. 3 Contents 3 2. Numerical Modelling 5 2. 1 Introduction 5 2. 2 Overview of Numerical Models for Wave prediction 6 2. 3 Numerical Models for Simulation of Flow in porous media 7 2. 3. 1 Overview of mathematical solutions 7 2. 3. 2 Available numerical models for porous media flow 8 2. 4 The COBRAS Model 9 2. 4. 1 Overview 9 2. 4. 2 Governing Equations for the Mean Flow 9 2. 4. 2. 1 Flow...



[Read Modelling of Flow in Vertical Porous Structures Solving the Reynolds-Averaged Navier-Stokes Equations Rans Using the Volume of Fluid Method Vof Online](#)



[Download PDF Modelling of Flow in Vertical Porous Structures Solving the Reynolds-Averaged Navier-Stokes Equations Rans Using the Volume of Fluid Method Vof](#)

You May Also Like



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

[Read Document »](#)



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

[Read Document »](#)



The Forsyte Saga (The Man of Property; In Chancery; To Let)

Scribner Paperback Fiction. PAPERBACK. Book Condition: New. 0743245024 12+ Year Old paperback book-Never Read-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy- I ship...

[Read Document »](#)



Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)

Createspace, United States, 2015. Paperback. Book Condition: New. Apoorva Dingar (illustrator). Large Print. 214 x 149 mm. Language: English . Brand New Book ***** Print on Demand *****.Klara is a little different from the other...

[Read Document »](#)



Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually...

[Read Document »](#)

**Read Write Inc. Phonics: Blue Set 6 Non-Fiction 2 How to Make a Peach Treat**

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 205 x 74 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books

[Save Document »](#)

**Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package**

Pearson, United States, 2015. Book. Book Condition: New. 10th. 250 x 189 mm. Language: English . Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies

[Save Document »](#)

**The Monster Next Door - Read it Yourself with Ladybird: Level 2**

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, The Monster Next Door - Read it Yourself with Ladybird: Level 2, The Monster Next Door, George wants to be a monster, just like his neighbour

[Save Document »](#)

**Big Machines - Read it Yourself with Ladybird: Level 2**

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Big Machines - Read it Yourself with Ladybird: Level 2, Big Machines Trucks lift things and move them about all day long. Find out all about

[Save Document »](#)

**Chicken Licken - Read it Yourself with Ladybird: Level 2**

Penguin Books Ltd, United Kingdom, 2013. Paperback. Book Condition: New. 226 x 152 mm. Language: English . Brand New Book. In this classic fairy tale, a nut falls on Chicken Licken s head and he

[Save Document »](#)