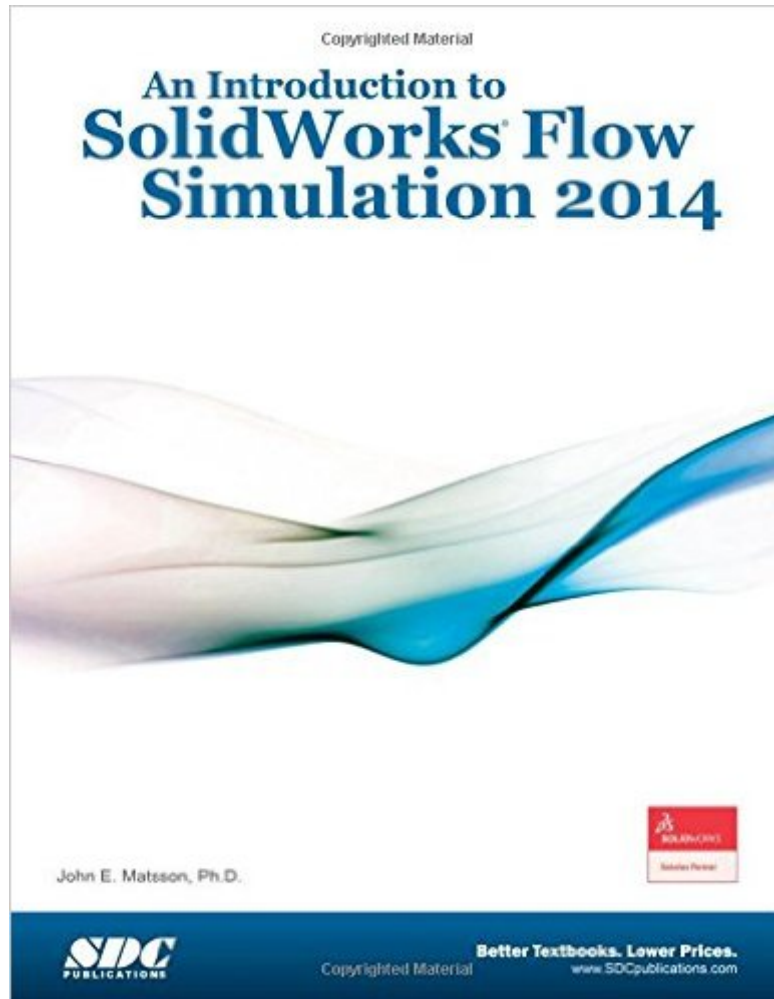


The book was found

# An Introduction To SolidWorks Flow Simulation 2014



## Synopsis

An Introduction to SolidWorks Flow Simulation 2014 takes you through the steps of creating the SolidWorks part for the simulation followed by the setup and calculation of the SolidWorks Flow Simulation project. The results from calculations are visualized and compared with theoretical solutions and empirical data. Each chapter starts with the objectives and a description of the specific problems that are studied. End of chapter exercises are included for reinforcement and practice of what has been learned. The fourteen chapters of this book are directed towards first-time to intermediate level users of SolidWorks Flow Simulation. It is intended to be a supplement to undergraduate Fluid Mechanics and Heat Transfer related courses. This book can also be used to show students the capabilities of fluid flow and heat transfer simulations in freshman and sophomore courses such as Introduction to Engineering. Both internal and external flow problems are covered and compared with experimental results and analytical solutions. Covered topics include airfoil flow, boundary layers, flow meters, heat exchanger, natural and forced convection, pipe flow, rotating flow, tube bank flow and valve flow. Table of Contents 1. Introduction 2. Flat Plate Boundary Layer 3. Analysis of the Flow Past a Sphere and a Cylinder 4. Analysis of the Flow Past an Airfoil 5. Rayleigh-Bénard Convection and Taylor-Couette Flow 6. Pipe Flow 7. Flow Across a Tube Bank 8. Heat Exchanger 9. Ball Valve 10. Orifice Plate and Flow Nozzle 11. Thermal Boundary Layer 12. Free-Convection on a Vertical Plate and from a Horizontal Cylinder 13. Swirling Flow in a Closed Cylindrical Container 14. Flow Past a Model Rocket

## Book Information

Perfect Paperback: 340 pages

Publisher: SDC Publications (July 10, 2014)

Language: English

ISBN-10: 1585038598

ISBN-13: 978-1585038596

Product Dimensions: 0.8 x 9 x 11.2 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,133,342 in Books (See Top 100 in Books) #104 in Books > Computers &

Technology > Graphics & Design > CAD > Solidworks #1268 in Books > Computers &

Technology > Graphics & Design > Computer Modelling #1705 in Books > Arts & Photography >

Architecture > Drafting & Presentation

[Download to continue reading...](#)

Thermal Analysis with SOLIDWORKS Simulation 2016 and Flow Simulation 2016 An Introduction to SolidWorks Flow Simulation 2014 An Introduction to SOLIDWORKS Flow Simulation 2016 Introduction to Finite Element Analysis Using SolidWorks Simulation 2014 Analysis of Machine Elements Using SolidWorks Simulation 2014 Engineering Analysis with SolidWorks Simulation 2014 Vibration Analysis with SolidWorks Simulation 2014 Official Certified SolidWorks Professional (CSWP) Certification Guide with Video Instruction: SolidWorks 2012-2014 Official Guide to Certified SolidWorks Associate Exams - CSWA, CSDA, CSWSA-FEA (SolidWorks 2015, 2014, 2013, and 2012) Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2016 Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2015 Introduction to Finite Element Analysis Using SolidWorks Simulation 2013 Atmospheric and Space Flight Dynamics: Modeling and Simulation with MATLAB<sup>®</sup> and Simulink<sup>®</sup> (Modeling and Simulation in Science, Engineering and Technology) Engineering Analysis with SOLIDWORKS Simulation 2016 Motion Simulation and Mechanism Design with SolidWorks Motion 2013 Engineering Analysis with SolidWorks Simulation 2013 Analysis of Machine Elements Using SOLIDWORKS Simulation 2016 Motion Simulation and Mechanism Design with SOLIDWORKS Motion 2016 Engineering Analysis with SOLIDWORKS Simulation 2015 Vibration Analysis with SOLIDWORKS Simulation 2015

[Dmca](#)