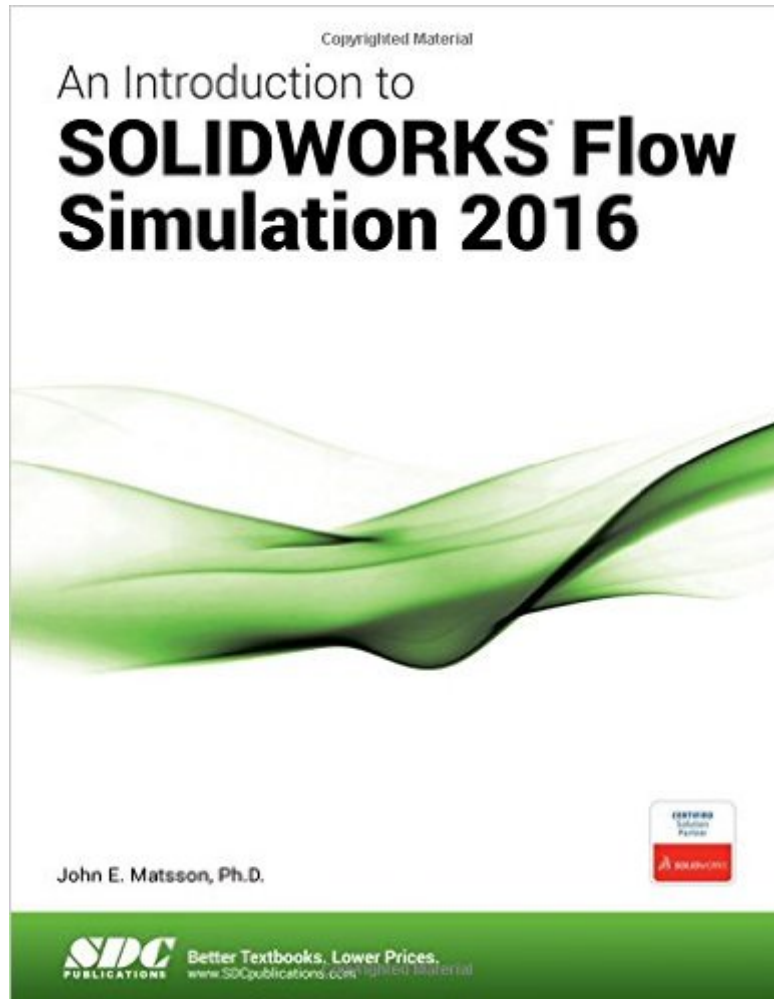


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An Introduction To SOLIDWORKS Flow Simulation 2016



Synopsis

An Introduction to SOLIDWORKS Flow Simulation 2016 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 Index

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