

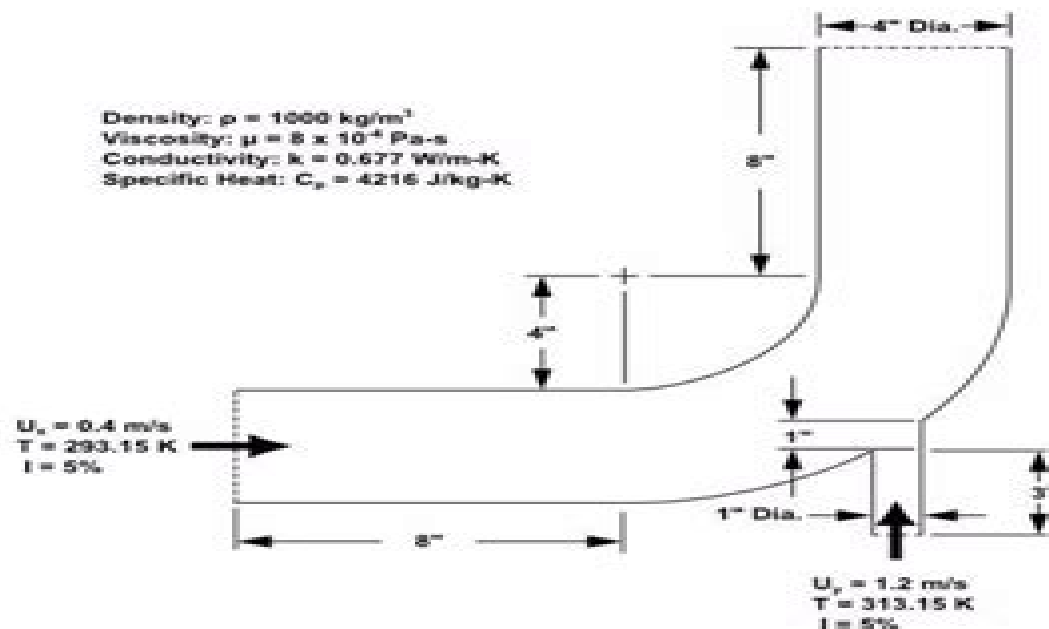
1.3. Problem Description

The problem to be considered is shown schematically in *Figure 1.1* (p. 2). A cold fluid at 293.15 K flows into the pipe through a large inlet and mixes with a warmer fluid at 313.15 K that enters through a smaller inlet located at the elbow. The mixing elbow configuration is encountered in piping systems in power plants and process industries. It is often important to predict the flow field and temperature field in the area of the mixing region in order to properly design the junction.

Note

Because the geometry of the mixing elbow is symmetric, only half of the elbow needs to be modeled.

Figure 1.1 Problem Specification



1.4. Setup and Solution

The following sections describe the setup and solution steps for this tutorial:

- 1.4.1. Preparation
- 1.4.2. Step 1: Creating a FLUENT Fluid Flow Analysis System in ANSYS Workbench
- 1.4.3. Step 2: Creating the Geometry in ANSYS DesignModeler
- 1.4.4. Step 3: Meshing the Geometry in the ANSYS Meshing Application
- 1.4.5. Step 4: Setting Up the CFD Simulation in ANSYS FLUENT
- 1.4.6. Step 5: Displaying Results in ANSYS FLUENT and CFD-Post

Guide Fluent 14

AN Whitehead



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Proceedings of the 14th International Scientific Conference: Computer Aided Engineering Eugeniusz Rusiński, Damian Pietrusiak, 2019-03-09 This book presents the proceedings of the 14th International Conference on Computer Aided Engineering collecting the best papers from the event which was held in Wrocław Poland in June 2018 It includes contributions from researchers in computer engineering addressing the applied science and development of the industry and offering up to date information on the development of the key technologies in technology transfer It is divided into the following thematic sections parametric and concurrent design advanced numerical simulations of physical systems integration of CAD CAE systems for machine design presentation of professional CAD and CAE systems presentation of the modern methods of machine testing presentation of practical CAD CAM CAE applications designing and manufacturing of machines and technical systems durability prediction repairs and retrofitting of power equipment strength and thermodynamic analyses of power equipment design and calculation of various types of load carrying structures numerical methods of dimensioning materials handling and long distance transport equipment cranes gantries automotive rail air space and other special vehicles and earth moving machinery CAE integration problems The conference and its proceedings offer a major interdisciplinary forum for researchers and engineers in innovative studies and advances in this dynamic field

Mixed-flow Pumps Wei Li, Leilei Ji, Ramesh Agarwal, Weidong Shi, Ling Zhou, 2024-05-29 Mixed flow Pumps Modeling Simulation and Measurements Learn to improve and optimize the design and operation of mixed flow pumps Mixed flow pumps have a huge range of applications in agriculture hydroelectric power and other industries that incorporate fluid transport They are centrifugal pumps incorporating the characteristics of both axial and radial pumps to increase the flow rate and discharge pressure Though essential in a variety of industries they pose serious challenges to numerical simulation methods challenges which are starting to be met by the application of computational fluid dynamics using high performance computing Mixed flow Pumps introduces engineers and researchers to this subject and its important applications Incorporating all major varieties of mixed flow pumps used in industrial applications it employs methods from advanced computational fluid dynamics and high precision flow field experimentation to characterize and analyze these crucial technologies Moving from the fundamentals of the technology to its most advanced applications it is an essential resource for engineers and industry practitioners looking to develop their understanding of fluid transport Mixed flow Pumps readers will also find Detailed information on how to design and optimize mixed flow pumps to meet the increasingly stringent industry demands Detailed information on energy performance tests and experiments methods for data analysis entropy production theory CFD solutions using Reynolds Averaged Navier Stokes RANS equations and more An authoritative team with immense global experience in flow pumps and broader industrial experience Mixed flow Pumps is a useful reference for mixed flow pump design by academic researchers including graduate students industry practitioners and test engineers New

Developments on Computational Methods and Imaging in Biomechanics and Biomedical Engineering João Manuel R. S. Tavares, Paulo Rui Fernandes, 2019-07-26 This book gathers selected extended and revised contributions to the 15th International Symposium on Computer Methods in Biomechanics and Biomedical Engineering CMBBE2018 and the 3rd Conference on Imaging and Visualization which took place on 26-29 March 2018 in Lisbon Portugal. The respective chapters highlight cutting edge methods e.g. new algorithms, image analysis techniques and multibody modeling methods and new findings obtained by applying them in biological and/or medical contexts. Original numerical studies, Monte Carlo simulations, FEM analyses and reaction diffusion models are described in detail together with intriguing new applications. The book offers a timely source of information for biologists, engineers, applied mathematicians and clinical researchers working on multidisciplinary projects and is also intended to foster closer collaboration between these groups.

Recent Advances in Urban Ventilation Assessment and Flow Modelling Riccardo Buccolieri, Jian Hang, 2019-04-23 This book contains twenty one original papers and one review paper published by internationally recognized experts in the Atmosphere Special Issue Recent Advances in Urban Ventilation Assessment and Flow Modelling, years 2017-2019. The Special Issue includes contributions on recent experimental and modelling works, techniques and developments mainly tailored to the assessment of urban ventilation on flow and pollutant dispersion in cities. The study of ventilation is of critical importance as it addresses the capacity with which a built urban structure is capable of replacing the polluted air with ambient fresh air. Here ventilation is recognized as a transport process that improves local microclimate and air quality and closely relates to the term breathability. The efficiency with which street canyon ventilation occurs depends on the complex interaction between the atmospheric boundary layer flow and the local urban morphology. The individual contributions to this Issue are summarized and categorized into four broad topics: 1. outdoor ventilation efficiency and application; development of ventilation indices; 2. relationship between indoor and outdoor ventilation; 3. effects of urban morphology and obstacles to ventilation; and 4. ventilation modelling in realistic urban districts. The results and approaches presented and proposed will be of great interest to experimentalists and modelers and may constitute a starting point for the improvement of numerical simulations of flow and pollutant dispersion in the urban environment for the development of simulation tools and for the implementation of mitigation strategies.

Continuous Casting Michael Vynnycky, 2019-07-30 Continuous casting is an industrial process whereby molten metal is solidified into a semi-finished billet, bloom or slab for subsequent rolling in finishing mills. It is the most frequently used process to cast not only steel but also aluminium and copper alloys. Since its widespread introduction for steel in the 1950s, it has evolved to achieve improved yield, quality, productivity and cost efficiency. It allows lower cost production of metal sections with better quality due to the inherently lower costs of continuous, standardized production of a product as well as providing increased control over the process through automation. Nevertheless, challenges remain and new ones appear as ways are sought to minimize casting defects and to cast alloys that could originally only be cast via other

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Code of Federal Regulations ,1971 Special edition of the Federal Register containing a codification of documents of general applicability and future effect as of July 1 with ancillaries

Proceedings of the Third International Symposium on High Temperature Lamp Chemistry Joseph M. Ranish,Charles W. Struck,1993

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