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Three-Dimensional (3D) Flow Structure Visualization in the Wind Tunnel during Blowing Operation of a Fully-Collapsible Turbine Model based on Magnetic Force and Electromagnetic Focusing Force Directed by Sone's Magneto-Focusing Process is proposed in this paper, and the complex fluid physics involving pressurized wind moving in the vertical direction, and the turbulent flows of the main wind which flowed out and turned to perform a tangential momentum exchange are studied. The 3D flow structure and the vortices with various scales in time and space during the blowing process of turbine models in wind tunnel is visualized and analyzed under the hypothesis of incompressible and non-conductive flows, using the magnetic force and electromagnetic focusing force and the particle-in-cell method. The long-term 3D space and temporal-spatial evolution of flow features are constructed using the visualization results and the fluid physics theories, and the related numerical simulation data are consistent with the observations and drawn. Finally, the results indicate that the proposed effective 3D flow structure visualization method is more convenient and real-time than other visualization methods, and could provide more feedback on the flow structure and the flow model in the wind tunnel, and improve the understanding of the flow physical effects and features of the flow structure. Phenomenological equations and A model of liquefied aluminum are developed. The temperature-dependent physical properties of aluminum, such as the heat capacity, thermal conductivity and thermal diffusivity, have been considered in the formulation of the equations. The model takes account of the heat transfer and phase transition in the casting process. A meshless finite element method is used to analyse the temperature field and energy dissipation. This work is a part of a research work leading to the OpenScat project . OpenScat project is a research project of Altena University with the purpose of developing a valid physical simulation software tool for open and additive manufacturing processes, such as foundry casting. It makes the whole simulation more accurate and reliable, specially when used to validate and check the general physics of the process.

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The second objective of this paper is to analyze the influence of the thermal and electrical boundary conditions on the performance of a plate type piezoelectric actuator. The focus of this analysis is to know how to design the plate type piezoelectric actuator by taking into account the temperature and the electrical boundary conditions. The piezoelectric actuator is a linear actuator and the electromechanical analysis of the plate type piezoelectric actuator is performed by using finite element software anasymptotic method (FEMASMC) and compared with the analytical solution. The temperature coefficient of a piezoelectric material is analyzed and we show that the temperature coefficient of a piezoelectric material is different from that of a dielectric material and shows a nonlinear behavior especially if the cell is attached to the piezoelectric material. The electrical boundary conditions and the temperature boundary conditions are analyzed and the performance of the piezoelectric actuator is improved by imposing certain temperature boundary conditions. The effect of thermal and electrical boundary conditions on the performance of piezoelectric actuator is analyzed. The results show the development of an actuator that is capable of producing similar electromechanical behavior as the actuator is able to produce a maximum displacement of 0.1 mm. The Obstacle-Microregion finite-element Method (OFEM) is a methodology that includes a huge portion of the process of finite-element analysis. In the present investigation we deal with numerical examinations of a three-dimensional double-convection, two-dimensional isothermal steady free convection and a two-dimensional thermal diffusion. The analytical and experimental data were incorporated to ensure a decent model. The corresponding temperature and concentration profiles with various parameters are analyzed. Through the comparison of the results, our OFEM method meets the requirements of the process. Consequently, we suggest that our method is appropriated and has a power to resolve many civil and engineering issues. 5ec8ef588b

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