Simulation par fluent du refroidissement des aubes d'une turbine a gaz

International Journal of Chemical and Petroleum Sciences 1: 27-32 (2012).

Authors: M. Mansouri, N. Belghar.

Abstract

This article concerns a study analytically and numerically the cooling of the dawn of a gas turbine. We used the Fluent software to simulate the aerodynamic effects and the thermal influence on the blade. We are interested primarily in the theoretical study of this technique applied to film cooling of a flat plate and then looking at the numerical simulation by Fluent model with a k-e turbulence standard was used to model the turbulent flow where there is much more interested in the thermal aspect of this type of flow trying to explore the effect of temperature on the blade.

Keywords : gas turbine; convection; turbulence k-e; code Fluent.

Link http://ijcps.net/index.php/IJCPS/article/view/5