



Two Dimensional Numerical Simulation of Temperature Field During the Construction of the Gravity Dams with Cooling Pipe

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Abstract

Because of the cement hydration in mass concrete the temperature grows up. Weak heat conduction property of the concrete usually gives rise to thermal stresses which may cause cracking. Using cooling pipe may help overcoming the problem. In order to analysis temperature field and the effects of cooling pipe during the concrete hardening and gradual construction of the mass concrete structures, a temperature simulation program is developed using finite volume formulation which is derived by application of the Galerkin method on the domain discretized into triangular elements. The solution algorithm considers gradual moving the top boundary of the solution domain. The accuracy of the numerical model is assessed by comparison of the results with available analytical solutions and experimental measurements of two-dimensional square domain. The developed computer model is utilized to model the transient temperature field due to effects of cement hydration, cooling pipes, heat conduction, laminar construction, boundary conditions and ambient weather in various stages of construction of a typical gravity dam.

1 Introduction

The concrete parring of neighboring concrete blocks of the gravity dams usually proceeds with short time delay. Hence, the heat exchange in gravity dams principally takes place in the transverse direction of the dam axis and two-dimensional models are generally adopted for temperature studies [1]

Although application of the techniques for pre-cooling of the materials in the concrete mixture and the use of additives or low heat generation cements are effective methods for reducing maximum temperature of the mass concrete, technical difficulties, unwanted side effects and time delay encourage the use of post cooling water pipe coils which provides flexible control over temperature variations. However, the use of the post cooling system in mass concrete may not properly control the temperature variation tensile and consequently danger of cracking may appear. This fact makes temperature profile simulation an important part of the

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