About The Algorithm Solution Of A Planned Channel Problem

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Abstract

In the local coe.srdinatthe se ystem,he

$$\begin{pmatrix} e_x \\ e_y \\ n \end{pmatrix} = \begin{pmatrix} \cos\alpha & \sin\alpha & 0 \\ \sin\alpha & \cos\alpha & 0 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} i \\ j \\ k \end{pmatrix}, \quad \text{—} \quad , \tag{9}$$

which we will use in this work.

2. Governing Equations ork

Let us consider the problem of the evolution of the bottom surface $z = z(t, x, y)$ in a channel with

3. Bringing the equations of the problem into a Cartesian coordinate system

According to definition (9), the local coordinate system x, y, z is related to the Cartesian absolute coordinate system

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