The numerical method for computing the surface tension force is included as a volume force using the continuum surface force method (CSF) [7]. The surface tension coefficient is a linear function of temperature or concentration, where we would compute $\partial \sigma / \partial s$ in the same manner as $\partial T / \partial s$. The algorithm can be divided into two parts:

1. Approximating interfacial temperature;
2. Computing the surface gradient.

**References**


