

# **Sewing Connection of Difference Differential Equations for Singularly Perturbed Problems**

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The research for singularly perturbed problems of differential difference equations with initial boundary value problems has a large number of results. Most of these works are based on the proof of the existence of solutions, and use the differential inequality methods mostly. However, knowing the structure of solutions and obtaining the asymptotic expressions to be especially important in practical application and design algorithm. For this purpose, in this paper in view of several types of singularly perturbed differential difference equations with boundary value problems, we not only prove the existence of smooth solutions with interior layer but also construct uniformly valid asymptotic solution. The method which used here is called "Sewing Connection", and has shown great vitality in research of singular perturbation problems with contrast structures.