

Bul. Ştiinţ. Univ. Baia Mare, Ser. B,
Matematică-Informatică, Vol. XV(1999), Nr. 1-2, 89-102

Dedicated to Professor Ion PĂVĂLOIU on his 60th anniversary

A Galerkin Method for a Singularly Perturbed Bilocal Problem*

A.C.Muresan and C.Mustata

Abstract

A bilocal singularly perturbed problem is solved using Galerkin's method in a space in which the test functions are weighted primitives of wavelets. This method provides a "good" numerical solution of this problem.