

Bul. Stiinț. Univ. Baia Mare, Ser. B,
Matematică-Informatică, Vol. XIV(1998), Nr. 2, 143-148

**A RICCATI TYPE SYSTEM ATTACHED TO A BOUNDARY
CONTROL PROBLEM FOR LAPLACE EQUATION**

Maria BĂTINEȚU-GIURGIU

A boundary control problem with quadratic cost functional for Laplace equation with boundary conditions given by the solution of a differential equation involving control is considered. The form of the feedback for the optimal control and a Riccati type system, which gives a characterization for the kernels that intervient in the feedback form, are derived.