1120-47-167Talat Nazir* (talat.nazir@mdh.se), Malardalen University Vasteras, 72123 Vasteras, Sweden.Fixed point results of block operator matrix and its applications.

In this paper, we study the existence of solutions of operator equations employing the block operator matrix. We present some examples in the support of our results. An application is also obtained for solutions of a coupled system of differential equations under abstract boundary conditions of Rotenberg's model type. Our results unify, extend and generalize various results in existing literature. (Received February 21, 2016)