ON INVERSES AND GENERALIZED INVERSES OF BIMATRICES

RAMESH G[1] & ANBARASI N[2]

[1]Associate Professor of Mathematics, Government Arts College (Autonomous), Kumbakonam, Tamilnadu, India

[2]Assistant Professor in Mathematics, Arasu Engineering College, Kumbakonam, Tamilnadu, India

ABSTRACT

The concept of singular, Semi-singular and non-singular bimatrices are introduced. The concept of inverse bimatrices, reverse order law and some properties of inverses bimatrices are studied. Also the notion of generalized inverses and some properties of generalized inverse of bimatrices are discussed. The solution of homogeneous and non-homogeneous system of equations are studied.

KEYWORDS: Bimatrix, Inverse Bimatrix, Generalized Inverse of Bimatrix, Singular, Semi- Singular, Non-Singular Bimatrices