

ULTRA SCIENCE

Vol. 17

2005

497-502

BITRANSFORMATION OF BIVECTOR SPACES

W.B. Vasantha Kandasamy and K.Ilanthenral

In this paper we define for the first time the notion of bitransformation of bivector spaces, which results in associated bimatrices; analogous to linear transformation associated with matrices. In this paper we only study finite dimensional bivector spaces.

We illustrate this situation by some examples. Further using a bibasis the bitransformation is analyzed. As in case of vector spaces of finite dimension that are isomorphic; we see finite dimensional bivector spaces are also isomorphic. This is proved in case of finite dimensional bivector spaces.

All Rights Reserved. This work is Copyright © W.B.Vasantha Kandasamy and K. Ilanthenral, 2005. Mathematicians can use the above material for research purposes, but the work of the author ***must*** be acknowledged. Violators of copyright, and those indulging in *plagiarism* and *intellectual theft* are liable for strict prosecution.

e-mail: vasanthakandasamy@gmail.com

web: http://mat.iitm.ac.in/wbv/public_html/home.htm