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**Huangqi Zhang**



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web if one has a linear transformation in functional form it is easy to determine the transformation matrix  $A$  by transforming each of the vectors of the standard basis by  $T$  then inserting the result into the columns of a matrix in other words for example the function is a linear transformation

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web orthogonality of the transformation matrix  $q$  as in the two dimensional case the transformation matrix is orthogonal  $q^T q = I$  this follows from  $\langle e_i, e_j \rangle = \delta_{ij}$  example consider a cartesian coordinate system with base vectors  $e_i$  a coordinate

transformation is carried out with the new basis given by  $\{e_1', e_2'\}$

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web coordinates of  $v$  the standard coordinates are  $v = v_1 e_1 + v_2 e_2$  are the  $b_1, b_2$  are assumed if no other basis is specified this means  $v = v_1 e_1 + v_2 e_2$  if  $\{b_1, b_2\}$  is a basis of  $\mathbb{R}^2$  then the matrix  $S$  which contains the vectors  $b_k$  as column vectors is called the coordinate change matrix

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web a translation by a nonzero vector is not a linear map because linear maps must send the zero vector to the zero vector however translations are very useful in performing coordinate transformations i ll introduce the following terminology for the composite of a linear transformation and a translation definition let  $a$  be a real matrix

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web any vector  $v$  represented in  $b$  can be transformed to a representation in  $c$  as follows under the transformation of basis notice that the superscript on the transformation matrix  $m$  and the subscript on the coordinate vector  $v$  are the same and seemingly cancel leaving the remaining subscript

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