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**Huangqi Zhang**

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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  $\begin{pmatrix} 1 & 5 \\ 11 & 15 \end{pmatrix} \begin{pmatrix} 1 & 11 \\ 5 & 13 \end{pmatrix} = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$  example consider a cartesian coordinate system with base vectors  $e_1, e_2$  a coordinate transformation is carried out with the new basis given by  $\begin{pmatrix} 3 & 3 \\ 2 & 3 \end{pmatrix} \begin{pmatrix} 1 & 3 \\ 3 & 2 \end{pmatrix} = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$

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web coordinates of  $v$  the standard coordinates are  $v = \begin{pmatrix} 3 \\ 1 \end{pmatrix}$  are the  $b_1, b_2$  are assumed if no other basis is specified this means  $v = 3e_1 + 1e_2 = 4e_1 + 5e_2$  if  $b_1 = v_1, b_2 = v_2$

vng is a basis of  $\mathbb{R}^n$  then the matrix  $S$  which contains the vectors  $v_k$  as column vectors is called the coordinate change matrix

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closest vector on horizontal axis as illustrated in figure 2.6.20 this transformation is called the projection onto the horizontal axis

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approach let construct an orthonormal basis of the second order tensor projected in the first order tensor the stress and strain tensors are now defined by and then once constructs the bound matrix in the orthonormal base with the rotation matrix in base

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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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web jun 28 2021 the transformation matrix between coordinate systems having differing orientations is called the rotation matrix this transforms the components of any vector with respect to one coordinate frame to the components with respect to a second coordinate frame rotated with respect to the first frame

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web jan 31 2023 how to find coordinate vector of a linear transformation ask question asked 8 months ago modified 8 months ago viewed 282 times 2 i m trying to find the coordinate vector of the following linear transformation  $T$  a  $b$   $3a$   $b$   $a$   $3b$  in the following basis  $\beta$   $1$   $1$   $1$   $1$

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