

3rd Edition

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New Age Science

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**Terry C. Jones**



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web in linear algebra a rotation matrix is a transformation matrix that is used to perform a rotation in euclidean space for example using the convention below the matrix rotates points in the  $xy$  plane counterclockwise through an angle  $\theta$  about the origin of a two dimensional cartesian coordinate system

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the transformation matrix alters the cartesian system and maps the coordinates of the vector to the new coordinates

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web coordinates of  $\mathbf{v}$  the standard coordinates are  $v_1, v_2$  are the  $b_1, b_2$  are assumed if no other basis is specified this means  $\mathbf{v} = v_1 \mathbf{b}_1 + v_2 \mathbf{b}_2$  if  $\mathbf{b}'_1, \mathbf{b}'_2$  is a basis of  $\mathbb{R}^n$  then the matrix  $S$  which contains the vectors  $\mathbf{b}'_k$  as column vectors is called the coordinate change matrix

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web the vector  $\mathbf{b}$  is parallel to  $\mathbf{a}$  and points in the same direction if  $\alpha > 0$  for  $\alpha < 0$  the vector  $\mathbf{b}$  is parallel to but points in the opposite direction antiparallel if we multiply an arbitrary vector  $\mathbf{a}$  by the inverse of its magnitude  $1/|\mathbf{a}|$  we obtain a

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web and now that we know what  $D$  is we can now solve for  $A$  we can now solve for the transformation matrix with respect to the standard basis so to do that we have to figure out  $C$  and  $C^{-1}$  so  $C$  remember  $C$  is just the change of basis matrix and

all that is is the basis vectors it s just a matrix with the basis vectors in the column

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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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