



OHIO

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# Ohio Science Grade 3 A Closer Look

**Victor M. Corman**



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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  $\mathbb{R}^2$  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 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 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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