

**GARMIN**

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# Garmin Nuvi 205 Troubleshooting

**Daniela Niemeyer**

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web coordinates of  $v$  the standard coordinates are  $v_3$  are the  $b_1$   $b$  are assumed if no other basis is specified this means  $v = 3e_1 + 4e_2 + 4e_5 + 2e_6$  if  $b = \{v_1, v_2, v_3\}$  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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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  $\mathbf{D}$  is we can now solve for  $\mathbf{A}$  we can now solve for the transformation matrix with respect to  
the standard basis so to do that we have to figure out  $\mathbf{C}$  and  $\mathbf{C}^{-1}$  so  $\mathbf{C}$  remember  $\mathbf{C}$  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  
composition of a linear transformation and a translation definition let  $\mathbf{A}$  be a real matrix

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web any vector  $\mathbf{v}$  represented in  $\mathbf{B}$  can be transformed to a representation in  $\mathbf{C}$  as follows under the transformation of basis  
notice that the superscript on the transformation matrix  $\mathbf{M}$  and the subscript on the coordinate vector  $\mathbf{v}$  are the same and  
seemingly cancel leaving the remaining subscript

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