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# 8 Ford F 450 F450 Super Duty Workshop Repair Manual

**Léo Pomar**



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example the function is a linear transformation

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web coordinates of  $v$  the standard coordinates are  $v_i$  are the  $b_i$  are assumed if no other basis is specified this means  $v = \sum v_i e_i$  if  $\tilde{b}_i$  is a basis of  $\mathbb{R}^n$  then the matrix  $S$  which contains the vectors  $\tilde{b}_k$  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  $c$  inverse 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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