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Chemistry, 2002 **SWAP & PAWS** Kenneth Yue, 2004 *MRI of Heterogeneous Hydrogenation Reactions Using Parahydrogen Polarization* Scott Russell Burt, 2008 Russian Journal of Coordination Chemistry, 2000-07 **Acta Polytechnica Scandinavica**, 1998 *Encyclopedia of Polymer Science and Technology*: , v. 9. *Acrylic fibers to ethylene oxide polymers*, 2004

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web coordinates of v the standard coordinates are v_3 are the b_1 b_2 are assumed if no other basis is specified this means $v = 3e_1 + 4e_2 + 5e_3$ 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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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 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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