



VECTOR CROSS PRODUCT DIFFERENTIAL AND DIFFERENCE EQUATIONS IN \mathbb{R}^3 AND IN \mathbb{R}^{7*}

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Abstract. Through a matrix approach of the 2-fold vector cross product in \mathbb{R}^3 and in \mathbb{R}^7 , some vector cross product differential and difference equations are studied. Either the classical theory or convenient Drazin inverses, of elements belonging to the class of index 1 matrices, are applied.

Key words. 2-fold vector cross product, Vector cross product differential equation, Vector cross product difference equation.

AMS subject classifications. 15A72, 15B57, 34A05, 39A06.

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