

Page3/5 d) (Ru) x = Rux RT, 5 = R8 5-6 ua x va = (ua) x va = (Raub) x Ra vb = R3 Cuby R6 T R6 Ub = R6 Cuby Ub = R6 (ub x Ub) The interpretation is that the crossproduct is dependent on the frame, but can be rotated from frame a to Frame to by the rotation matrix R6. Problem 2 a) $R_5 = R_1(\rho) R_2(\theta) R_3(\gamma)$ Rig = dRib ; + dRib it 29 = (wab) RB > (wab) = RB (RB) T $(\omega_{ab})^{x} = \omega_{3} \quad 0 \quad -\omega_{1} \quad \omega_{ab} = \omega_{2} \quad | \omega_{1} | \quad | \omega_{3} | \quad$ The simulations give sensible results. We can see vas 15 stationary while the red frame b is spinning around it. Larger also also gives faster rotations, as exactal

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