HW 6 Answers

10-12-14

5.1) can be extracted from (5.57) (or given by (5.67)).

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The results have to be the same.

5.7) .

 It is a Cartesian robot with Linear-Orthogonal-Orthogonal joints. Sketch accordingly.

5.8)  from (5.55)

 *The solution in the back of the text does not start correctly. It should start with the basic*

 *properties of an orthonormal matrix.*

 At isotropic point, the column dot product of 

 Thus 

which means  (1)

 Also 

 Simplifying   (2)

 Solving (1) and (2),  and 

5.10)  or









5.16) Given by eq. (5.42)

 