

## A dynamics formulation of general constrained robots

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With reference to section **3.3 Coordinated multiple manipulators**

1) The correct text for the beginning (the first two lines) of the explanation for Step 4 should begin as follows:

In Step 4,  $\dot{q}_a = [\dot{q}_1^T, \dot{q}_2^T, \dots, \dot{q}_h^T]^T \in \mathfrak{R}^{6h}$  with  $\dot{q}_i = [\dot{q}_{i1}, \dot{q}_{i2}, \dots, \dot{q}_{i6}]^T \in \mathfrak{R}^6$ ,  $i = 1, 2, \dots, h$ , and  $\dot{q}_u = 0$  are specified. Matrix  $T_a$  is formed as

2) The correct text for the beginning (the first two lines) of the explanation for Step 8 should begin as follows:

In Step 8,  $n = 6h$  is obtained from (13). Furthermore, it yields

$$\dot{q} = \dot{q}_a \in \mathfrak{R}^{6h}$$