Matrix Methods in the Design Analysis of Mechanisms and Multibody Systems

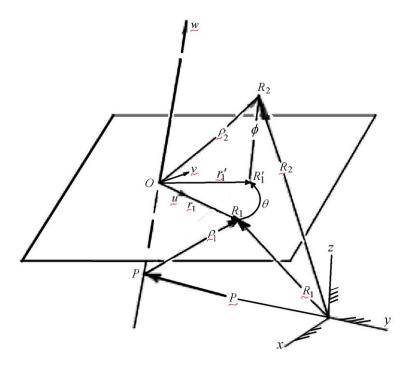
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Corrigenda

Latest update: 10 June 2013

Page Correction

- Line 23, Eq. (3.14). In the top-left corner of the matrix to the right of the equality sign, the symbol $\hat{\Omega}$ which now shows with an arc over it should also show a tilde above the arc as follows $\hat{\Omega}$.
- Figure 3.13. All of the vectors (but not scalars) in this figure should be set in bold typefont (10 places).



63 Lines 16-22. The symbol ρ should be italic and bold so that the four equations read

$$\boldsymbol{\rho}_{1} = \boldsymbol{R}_{1} - \boldsymbol{P}.\tag{a}$$

and

$$\mathbf{R}_{2} = \mathbf{P} + \overrightarrow{PO} + \boldsymbol{\rho}_{2}. \tag{b}$$

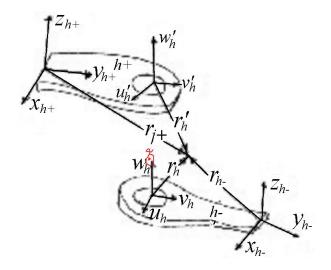
and

$$\rho_2 = r_1 \cos \theta u + r_1 \sin \theta v + \phi w.$$

and

$$\overrightarrow{PO} = (\boldsymbol{\rho}_1 \cdot \boldsymbol{w}) \boldsymbol{w},$$

- 74 Line 21, Eq. (3.56). The symbol $\tilde{\Omega}$ in the top-left corner of the first matrix should be italic, but not bold.
- Line 1, Problem 3.13. Both symbols $\widehat{\Omega}$ and Ω in the top row of the left-most matrix should be italic, but not bold. In addition, in the top-left corner of both matrices, both symbols $\widehat{\Omega}$ and $\widehat{\sigma}$, which are now properly italic with arcs above them, should each have tilde marks above the arcs, that is $\widetilde{\Omega}$ and $\widetilde{\widehat{\sigma}}$.
- Line 7, Problem 3.15. The data which now reads " $\measuredangle(x_b, y_c) = 45^\circ$." should read " $\measuredangle(y_b, x_c) = 45^\circ$."
- Line 2. The beginning of the second line now reads " (ϕ_h^1) " and should read " $v(\phi_h^1)$ ".
- Figure 5.2. The lower of the two symbols w'_h should not have a prime.



Line 9. The reference which now reads "[4]" should read "[5]".

- Lines 27-31. The symbol τ on line 27, and in τ_t on line 28 and τ_n on line 29, the τ should be in boldface type, (τ , τ_n). The same is true for three places withing the caption for Figure 9.2, and for four places within Figure 9.2 itself.
- Line 1. The name Maupertuis' as now printed is misspelled.
- Line 24. In the last line of the last equation on the page, a factor of $\frac{1}{2}$ should appear immediately inside of the left brace, before the summation over b. Thus, the last line on the page should read:

$$-\frac{\partial}{\partial \psi_i} \left\{ \frac{1}{2} \sum_{b=1}^{\ell} \operatorname{trace} \left[\left(\sum_{j=1}^{f} W_{bj} \dot{\psi}_j \right) T_{0b} J_b T_{0b}^t \left(\sum_{k=1}^{f} W_{bk} \dot{\psi}_k \right)^t \right] \right\},$$

- Line 18. Reference 8. The name P. L. M. de Maupertuis as now printed is misspelled.
- 257 Line 7. The symbol which now reads " z^* " should read " t^* ".
- 260 Line 11. The symbol " $\tau'_{cdeg}(\phi^*, \mathbf{z}^*)$ " should read " $\tau'_{cdeg}(\phi^*, \mathbf{z})$ ".
- 287 Line 13. The embedded equation which now reads " $[\dot{T}_k(0)] = 0$." should read " $[\mathcal{T}_k(0)] = 0$."