## TAM 674 Applied Multibody Dynamics

Spring Term 2003, Mon & Wed 10:10-11:00, 202 Thurston Hall, 3 credits.

June 20, 2003

## Errata on the final project notes: TAM674notbp.pdf

Page 5, line 10: replace second  $\dot{\mathbf{x}}_2$  by  $\dot{\mathbf{x}}_1$ Page 5, line 11: replace second  $\mathbf{v}_2$  by  $\mathbf{v}_1$ Page 5, line 12: replace second  $\dot{\mathbf{v}}_2$  by  $\dot{\mathbf{v}}_1$ 

Page 6, last line:  $\tilde{\mathbf{x}}'_{A/2} \to \mathbf{x}_{A/2}$ Page 6, last line:  $\tilde{\mathbf{x}}_{A/1} \to \mathbf{x}_{A/1}$ 

Page 7, last line:  $\mathbf{R}_{2}\tilde{\hat{\mathbf{e}}}'_{y1} \to \mathbf{R}_{1}\tilde{\hat{\mathbf{e}}}'_{y1}$ 

Page 11:  $(\mathbf{A}'(\mathbf{p}_i))^{-1} \to (\mathbf{A}'(\mathbf{p}_i))$ , 3 times. Page 11:  $(\mathbf{A}'_1)^{-1} \to (\mathbf{A}'_1)$ Page 11:  $(\mathbf{A}'_2)^{-1} \to (\mathbf{A}'_2)$ 

Page 10, Convective terms **g** should be:

$$\begin{bmatrix} g_1 \\ g_2 \\ g_3 \end{bmatrix} = \begin{bmatrix} rc_{\theta}\dot{\theta}^2 + rc_{\theta}s_{\theta}\dot{\phi}\dot{\psi} \\ -s_{\phi}\dot{x}\dot{\phi} + c_{\phi}\dot{y}\dot{\phi} \\ -c_{\phi}\dot{x}\dot{\phi} - s_{\phi}\dot{y}\dot{\phi} + rc_{\theta}^2\dot{\phi}\dot{\psi} - rs_{\theta}\dot{\theta}^2 \end{bmatrix}$$

Forget about the substitution.

## Errata on the Final Project

Page 1, item b:  $12 \text{ m/s} \rightarrow 4.2 \text{ m/s}$ 

Page 1, item c(2):  $10 \text{ m/s} \rightarrow 3.5 \text{ m/s}$