Biped Control with a Biomechanical Model

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$$\mathbf{A}\vec{\ddot{f}}_b(x) + g(x) = 4x + 11dd \tag{1}$$

$$
\begin{aligned}
m\vec{a} &= \vec{f} \\
&= \vec{f}_c + \vec{f}_m + \vec{f}_e \\
&= \sum_{i=1}^{n_c} \vec{f}_{c,i} + \sum_{i=1}^{n_m} \vec{f}_{m,i} + \sum_{i=1}^{n_e} \vec{f}_{e,i}. \\
\mathbf{H}\vec{\alpha} + \vec{\omega} \times \mathbf{H}\vec{\omega} &= \vec{\tau} \\
&= \sum_{i=1}^{n_c} \vec{r}_{c,i} \times \vec{f}_{c,i} + \sum_{i=1}^{n_m} \vec{r}_{m,i} \times \vec{f}_{m,i} + \sum_{i=1}^{n_e} \vec{r}_{e,i} \times \vec{f}_{e,i}.
\end{aligned}
$$

If one merely wishes to type in ordinary text, without complicated mathematical formulae or special effects such as font changes, then one merely has to type it in as it is, leaving a completely blank line between successive paragraphs.

You do not have to worry about paragraph indentation: all paragraphs will be indented with the exception of the first paragraph of a new section.

One must take care to distinguish between the 'left quote' and the 'right quote' on the computer terminal. Also, one should use two 'single quote' characters in succession if one requires "double quotes". One should never use the (undirected) 'double quote' character on the computer terminal, since the computer is unable to tell whether it is a 'left quote' or a 'right quote'. One also has to take care with dashes: a single dash is used for hyphenation, whereas three dashes in succession are required to produce a dash of the sort used for punctuation—such as the one used in this sentence.

1 Section Headings

We explain in this section how to obtain headings for the various sections and subsections of our document.

1.1 Headings in the 'article' Document Style

In the 'article' style, the document may be divided up into sections, subsections and subsubsections, and each can be given a title, printed in a boldface font, simply by issuing the appropriate command.