Really Cool Chemical Engineering Homework

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Showing off some features

Let's see some useful tricks! To start, I love the `siunitx` package, but it doesn't always have the US engineering units I need! With the custom units defined in my packages, I can now state with confidence that 1 $\mathrm{ft}^3/\mathrm{min}$ is equal to 0.471 947 L/s.

Adding some citations

One of the best features of the LaTeX document system is citation management. By citing some irrelevant heat transfer papers (Bohnet, 1987; Prabhanjan, Raghavan, & Rennie, 2002), we can see how our citations and bibliography are styled (Wong, Ke, & Ku, 2009).

References

Bohnet, M. (1987). Fouling of heat transfer surfaces. *Chemical Engineering & Technology - CET*, *10*(1), 113–125. doi:10.1002/ceat.270100115

Prabhanjan, D., Raghavan, G., & Rennie, T. (2002, February). Comparison of heat transfer rates between a straight tube heat exchanger and a helically coiled heat exchanger. *International Communications in Heat and Mass Transfer*, *29*(2), 185–191. doi:10.1016/S0735-1933(02)00309-3

Wong, K.-L., Ke, M.-T., & Ku, S.-S. (2009, November). The log mean heat transfer rate method of heat exchanger considering the influence of heat radiation. *Energy Conversion and Management*, *50*(11), 2693–2698. doi:10.1016/j.enconman.2009.05.024