

Creating Equations with LaTeX

Mathematical equations may be created using [LaTeX notation \[https://edtechbooks.org/-qYV\]](https://edtechbooks.org/-qYV).

While editing a chapter, select Tools > LaTeX Equation and type in the formula. Upon submitting, you will see a box in the editor that looks like the following:

Equation: `$$E=mc^2$$`

You can continue to edit the formula in the editor (provided that you do not remove the double-\$ symbols). When saved, the example equation will render as this:

$$E = mc^2$$

Here is a more sophisticated example:

Equation: `$$S(\omega)=1.466\sqrt{H_s^2}\sqrt{\frac{\omega_0^5}{\omega^6}}\sqrt{e^{-3\left(\frac{\omega}{\omega_0}\right)^2}}$$`

Which will render like this:

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$$S(\omega) = 1.466 H_s^2 \frac{\omega_0^5}{\omega^6} e[-3\omega/(\omega_0)]^2$$

For multi-line equations, use a double-slash (\\) to separate each line as follows:

Equation: `$$ f(x) = x^2 \\ g(x) = \frac{1}{x} \\ F(x) = \int^a_b \frac{1}{3}x^3 $$`

$$\begin{aligned} f(x) &= x^2 \\ g(x) &= \frac{1}{x} \\ F(x) &= \int_b^a \frac{1}{3}x^3 \end{aligned}$$

If you need assistance writing LaTeX equations, there are many online tools that can help you do this such as the [Online LaTeX Equation Editor \[https://edtechbooks.org/-NgK\]](https://edtechbooks.org/-NgK).

All rendering is performed courtesy of [MathJax \[https://www.mathjax.org/\]](https://www.mathjax.org/) and [CodeDogs \[https://edtechbooks.org/-IDD\]](https://edtechbooks.org/-IDD).



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