

coursera

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Heaviside Step Function

- (a) Use the step-up function $u_c(t)$ to construct a step-down and a step-up, step-down function.
- (b) Prove that $\mathcal{L}\{u_c(t)f(t-c)\}=e^{-cs}F(s).$
- (c) Consider the piecewise continuous function given by

$$f(t) = egin{cases} t, & ext{if } t < 1; \ 1, & ext{if } t \geq 1. \end{cases}$$

- (i) Express f(t) in a single line using the Heaviside function.
- (ii) Find F=F(s).

✓ Completed

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