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### Linear System Theory

As mentioned in Section 1.1, in the theory of linear systems it is common to allow impulse (generalized) functions in the kernel. For example, in (1) suppose  $h(t) = g(t) + g_0\delta(t)$ , where  $g(t)$  is a piecewise continuous function and  $\delta(t)$  is a unit impulse at  $t = 0$ .

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