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Fig. 1. Adding a smooth function changes neither the location nor the size of a jump discontinuity.

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For a given point of reconstruction x and fixed source position  $\eta$ , we integrate the scattered field along the time-distance surface (curve in the 2-D case)  $t = \phi^{in}(x,\eta) + \phi^{out}(x,\xi)$ , which is dictated by the background index of refraction  $n_0(x)$ . It is clear that if there were a reflector at the point x, along this curve the scattered field is most affected. The weight function  $b(x,\xi)$  in Eq. (3) is chosen so that we recover the jump of the function f at the point x as a result of such integration. The weight function  $b(x,\xi)$  depends on

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