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Sound-pressure level calculations using the RRA algorithm for depth-dependent speeds of sound valid at turning points and focal points

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Geophys. 43, 95-113 (1977) and prone to chaos [Smith et al., J. Acoust. Soc. Am. 91, 1939-1949 (1992)]. When formulated in terms of points, until the correct initial conditions are found (i.e., until the ray shooting. The eikonal equation is solved repeatedly, with the initial perturbed, the perturbed eigenrays may be determined efficiently from should be free of the ill effects of chaos. If the index of refraction is time. After a sequence of iterations, both the index of refraction and the tempting to satisfy Fermat's principle and attempting to match travel efficient with an optimization procedure that alternates between at-
