



Fig. 6.8. The isotropic reflection coefficients (6.3.60). The velocity ratio is $\beta_2/\beta_1 \simeq 1.1$ with density ratio $\rho_2/\rho_1 \simeq 1.072$ and Poisson's ratios of $\nu_1 = 1/4$ and $\nu_2 = 1/3$. The left panel contains T_{33} and T_{13} against the incident P ray angle (with the acoustic T_{11} coefficient denoted by a dashed line); the central panel contains T_{31} and T_{11} against the incident SV ray angle; the right panel contains T_{22} against the incident SH ray angle. The critical angles $\sin^{-1}(\alpha_1/\alpha_2) \simeq 51.9^\circ$, $\sin^{-1}(\beta_1/\alpha_2) \simeq 27.0^\circ$, $\sin^{-1}(\beta_1/\alpha_1) \simeq 35.3^\circ$ and $\sin^{-1}(\beta_1/\beta_2) \simeq 65.4^\circ$ are indicated. In all cases, the incident angles run from 0° to 90° .