

**FORMULA 4.132.3**

$$\int_0^{\infty} \frac{\sin ax \cosh \beta x}{e^{\gamma x} + 1} dx = \frac{a}{2(a^2 + \beta^2)} - \frac{\pi}{\gamma} \frac{\sinh \frac{a\pi}{\gamma} \cos \frac{\beta\pi}{\gamma}}{\cosh \frac{2a\pi}{\gamma} - \cos \frac{2\beta\pi}{\gamma}}$$