

$$b_{\text{BM}}(x_S, y_S, R_S, R_M) := R_M \cdot \text{acos} \left[\frac{\overline{x_S} \cdot (\overline{R_M} + \overline{R_S})^2 - \overline{y_S} \cdot (\overline{R_M} + \overline{R_S}) \cdot \sqrt{(\overline{x_S})^2 + (\overline{y_S})^2 - (\overline{R_M} + \overline{R_S})^2}}{(\overline{x_S})^2 + (\overline{y_S})^2} \right]$$

$$\sqrt{\left[\left[x_S - \frac{x_S \cdot (R_M + R_S)^2 - y_S \cdot (R_M + R_S) \cdot \sqrt{x_S^2 - (R_M + R_S)^2 + y_S^2}}{x_S^2 + y_S^2} \right]^2 + \left[y_S - \sqrt{(R_M + R_S)^2 - \frac{[x_S \cdot (R_M + R_S)^2 - y_S \cdot (R_M + R_S) \cdot \sqrt{x_S^2 - (R_M + R_S)^2 + y_S^2}]^2}{(x_S^2 + y_S^2)^2}} \right]^2} \right]}$$

$\overline{x_S}$

x_S