

Common spherical trigonometry formulas

law of sines:
$$\frac{\sin a}{\sin A} = \frac{\sin b}{\sin B} = \frac{\sin c}{\sin C}$$

law of cosines:
$$\begin{aligned}\cos a &= \cos b \cos c + \sin b \sin c \cos A \\ \cos b &= \cos a \cos c + \sin a \sin c \cos B \\ \cos c &= \cos a \cos b + \sin a \sin b \cos C\end{aligned}$$

half-angle formulas:
$$\begin{aligned}\tan\left(\frac{A}{2}\right) &= \sqrt{\frac{\sin(s-b) \sin(s-c)}{\sin s \sin(s-a)}} \\ \tan\left(\frac{B}{2}\right) &= \sqrt{\frac{\sin(s-c) \sin(s-a)}{\sin s \sin(s-b)}} \\ \tan\left(\frac{C}{2}\right) &= \sqrt{\frac{\sin(s-a) \sin(s-b)}{\sin s \sin(s-c)}}\end{aligned}$$
 , where $s = \frac{a+b+c}{2}$

half-side formulas:
$$\begin{aligned}\tan\left(\frac{a}{2}\right) &= \sqrt{\frac{-\cos S \cos(S-A)}{\cos(S-B) \cos(S-C)}} \\ \tan\left(\frac{b}{2}\right) &= \sqrt{\frac{-\cos S \cos(S-B)}{\cos(S-A) \cos(S-C)}} \\ \tan\left(\frac{c}{2}\right) &= \sqrt{\frac{-\cos S \cos(S-C)}{\cos(S-A) \cos(S-B)}}\end{aligned}$$
 , where $S = \frac{A+B+C}{2}$

Plane Spherical Trigonometry

RS Peters



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Plane Spherical Trigonometry Book Review: Unveiling the Power of Words

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