

Elliptic Integrals & Elliptic Functions

Ref: M.Abramowitz, I.A.Stegun, "Handbook of Mathematical Functions".

(Incomplete) Elliptic integrals:

1st kind: $F(\varphi | m) = \int_0^\varphi \frac{d\theta}{\sqrt{1 - m \sin^2 \theta}}$

2nd kind: $E(\varphi | m) = \int_0^\varphi d\theta \sqrt{1 - m \sin^2 \theta}$

Complete Elliptic integrals:

$$K(m) = F\left(\frac{\pi}{2} | m\right)$$

$$E(m) = E\left(\frac{\pi}{2} | m\right)$$

(Jacobian) Elliptic functions:

$$\sin \varphi = \operatorname{sn}(u | m) = \operatorname{sn} u$$

$$u = F(\varphi | m)$$

$$\cos \varphi = \operatorname{cn} u$$

$$\varphi = \operatorname{am} u$$

$$\sqrt{1 - m \sin^2 \varphi} = \operatorname{dn} u$$

Mathematica: `EllipticK[m] = EllipticF[$\pi/2$,m]`

`Sin[φ] = JacobiSN[EllipticF[φ ,m],m]`

Elliptic Functions And Elliptic Integrals

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