$$\cos 2x = \cos^2 x - \sin^2 x$$

$$= \cos^2 x \left(1 - \frac{\sin^2 x}{\cos^2 x}\right)$$

$$= \frac{\cos^2 x}{\sin^2 x + \cos^2 x} \left(1 - \tan^2(x)\right)$$

$$= \frac{1}{\frac{\sin^2 x + \cos^2 x}{\cos^2 x}} \times \left(1 - \tan^2(x)\right) = \frac{1}{1 + \tan^2(x)} \times \left(1 - \tan^2(x)\right)$$

Donc $\cos 2x = \dfrac{1 - \tan^2(x)}{1 + \tan^2(x)}$.