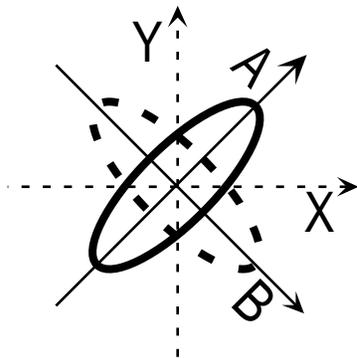


Skew Quadrupole Lattice Design Principles

Skew Quadrupole Lattice \neq Fully Coupled Lattice

The lattices presented here are uncoupled. They are special only in that the betatron eigenplanes (denoted A,B) line up with $\pm 45^\circ$ rather than the horizontal (X) and vertical (Y) axes.



Useful Trick:

Every dipole with bend radius, ρ , has a weak normal focusing component, $k = -1/(2\rho^2)$ added in order to make the focusing cylindrically symmetric.