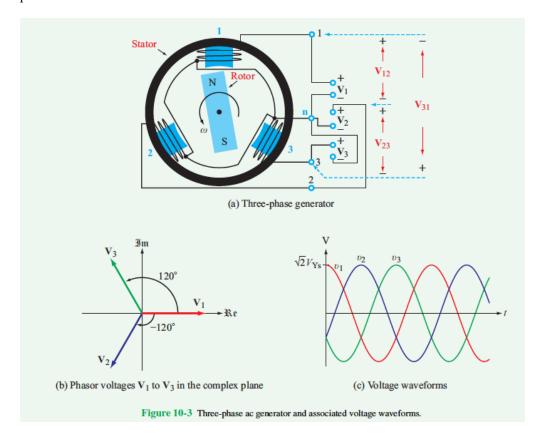
Concept Question 10-1: Why are the voltage sources of a three-phase source separated by 120° increments in phase?



Power is generated by spinning a large electromagnet past three separate stationary coils arranged evenly around a circular tube. Consequently, the three induced voltages have the same amplitude and frequency (60 Hz), but their phase angles are staggered by $360^{\circ}/3 = 120^{\circ}$ between any two of them.