

- 23** Monochromatic light of wavelength λ is incident normally on a diffraction grating with line separation d .

At which angle with the normal to the grating is a diffracted beam observed?

- A** $\sin^{-1} \frac{2\lambda}{d}$ **B** $\sin^{-1} \frac{\lambda}{2d}$ **C** $\sin^{-1} \frac{d}{\lambda}$ **D** $\sin^{-1} \frac{2d}{\lambda}$