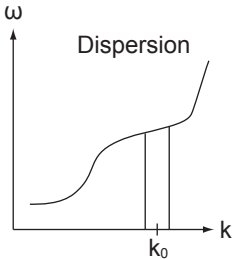


$$v_{\text{ph}} = \omega / k = \text{konstant}$$



$$v_{\text{ph}} = \omega / k \neq \text{konstant}$$