

Reciprocal Lattice Tutorial Exercise

Exercise

Show that if the sampling matrix of the reciprocal lattice Λ^* is $\mathbf{U} = 2\pi(\mathbf{V}^T)^{-1}$ and $\mathbf{n}^T \mathbf{k} = m \in \mathbb{Z}$, then $F(\boldsymbol{\Omega} + \mathbf{U}\mathbf{k}) = F(\boldsymbol{\Omega})$.