$$\begin{aligned}
\Bigg(&-k_x^2 u(x)v(y)w(z) + 2\imath k_x v(y)w(z)\frac{\partial}{\partial x}u(x) \\
&- k_y^2 u(x)v(y)w(z) + 2\imath k_y u(x)w(z)\frac{\partial}{\partial y}v(y) \\
&- k_z^2 u(x)v(y)w(z) + 2\imath k_z u(x)v(y)\frac{\partial}{\partial z}w(z) \\
&+ u(x)v(y)\frac{\partial^2}{\partial z^2}w(z) + u(x)w(z)\frac{\partial^2}{\partial y^2}v(y) \\
&+ v(y)w(z)\frac{\partial^2}{\partial x^2}u(x) \Bigg) e^{\imath k_x x}e^{\imath k_y y}e^{\imath k_z z}
\end{aligned} \tag{1}$$