1.解: 最近邻 An: 12x 12 12x 16=6 最近到次近到12×1-+6×1-387 A6:12×16+6×10=51 最近到次近到第三近到 $A_{12}: 12x + 16x - 1 + 14x - 1 = 94296$ $A_{6} = 12x + 16x - 16$

3.
$$\begin{cases}
\rho \frac{\partial^{2} y}{\partial t^{2}} = C_{11} \frac{\partial^{2} y}{\partial x^{2}} + C_{44} \left(\frac{\partial^{2} y}{\partial y^{2}} + \frac{\partial^{2} y}{\partial z^{2}} \right) + C_{41} \left(C_{44} \right) \left(\frac{\partial^{2} y}{\partial x \partial y} + \frac{\partial^{2} y}{\partial x \partial z} \right) \\
\rho \frac{\partial^{2} y}{\partial t^{2}} = C_{11} \frac{\partial^{2} y}{\partial y^{2}} + C_{44} \left(\frac{\partial^{2} y}{\partial x^{2}} + \frac{\partial^{2} y}{\partial y^{2}} \right) + \left(C_{11} + C_{44} \right) \left(\frac{\partial^{2} y}{\partial x \partial y} + \frac{\partial^{2} y}{\partial y \partial z} \right) \\
\rho \frac{\partial^{2} y}{\partial t^{2}} = C_{11} \frac{\partial^{2} y}{\partial z^{2}} + C_{44} \left(\frac{\partial^{2} y}{\partial x^{2}} + \frac{\partial^{2} y}{\partial y^{2}} \right) + \left(C_{12} + C_{44} \right) \left(\frac{\partial^{2} y}{\partial x \partial z} + \frac{\partial^{2} y}{\partial y \partial z} \right) \\
\rho \frac{\partial^{2} y}{\partial z^{2}} = C_{11} \frac{\partial^{2} y}{\partial x^{2}} + C_{44} \left(\frac{\partial^{2} y}{\partial x^{2}} + \frac{\partial^{2} y}{\partial y^{2}} \right) + \left(C_{12} + C_{44} \right) \left(\frac{\partial^{2} y}{\partial x \partial y} + \frac{\partial^{2} y}{\partial y \partial z} \right) \\
\rho \frac{\partial^{2} y}{\partial z^{2}} = C_{11} \frac{\partial^{2} y}{\partial x^{2}} + C_{44} \left(\frac{\partial^{2} y}{\partial y^{2}} + \frac{\partial^{2} y}{\partial z^{2}} \right) + \left(C_{12} + C_{44} \right) \left(\frac{\partial^{2} y}{\partial x \partial y} + \frac{\partial^{2} y}{\partial x \partial z} \right) \\
\rho \frac{\partial^{2} y}{\partial z^{2}} = C_{11} \frac{\partial^{2} y}{\partial x^{2}} + C_{44} \left(\frac{\partial^{2} y}{\partial y^{2}} + \frac{\partial^{2} y}{\partial z^{2}} \right) + \left(C_{12} + C_{44} \right) \left(\frac{\partial^{2} y}{\partial x \partial y} + \frac{\partial^{2} y}{\partial x \partial y} \right) \\
\rho \frac{\partial^{2} y}{\partial z^{2}} = C_{11} \frac{\partial^{2} y}{\partial x^{2}} + C_{44} \left(\frac{\partial^{2} y}{\partial y^{2}} + \frac{\partial^{2} y}{\partial z^{2}} \right) + \left(C_{12} + C_{44} \right) \left(\frac{\partial^{2} y}{\partial x \partial y} + \frac{\partial^{2} y}{\partial x \partial y} \right) \\
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\rho \frac{\partial^{2} y}{\partial z^{2}} = C_{11} \frac{\partial^{2} y}{\partial x^{2}} + C_{44} \left(\frac{\partial^{2} y}{\partial y^{2}} + \frac{\partial^{2} y}{\partial z^{2}} \right) + \left(C_{12} + C_{44} \right) \left(\frac{\partial^{2} y}{\partial x \partial y} + \frac{\partial^{2} y}{\partial x \partial y} \right) \\
\rho \frac{\partial^{2} y}{\partial z^{2}} = C_{11} \frac{\partial^{2} y}{\partial x^{2}} + C_{12} \left(\frac{\partial^{2} y}{\partial x^{2}} + \frac{\partial^{2} y}{\partial y^{2}} \right) + \left(C_{12} + C_{14} \right) \left(\frac{\partial^{2} y}{\partial x^{2}} + \frac{\partial^{2} y}{\partial x^{2}} \right) \\
\rho \frac{\partial^{2} y}{\partial x^{2}} = C_{11} \frac{\partial^{2} y}{\partial x^{2}} + C_{12} \left(\frac{\partial^{2} y}{\partial x^{2}} + \frac{\partial^{2} y}{\partial x^{2}} \right) + \left(C_{12} + C_{14} \right) \left(\frac{\partial^{2} y}{\partial x^{2}} + \frac{\partial^{2} y}{\partial x^{2}} \right) \\
\rho \frac{\partial^{2} y}{\partial x^{2}} = C_{11} \frac{\partial^{2}$$