

[illegible]

$$\cdot \text{theta}) * \cos^2(\text{theta})) + 2(\text{epsilon}[b] \sin^2(2 \cdot \text{theta}) - \text{epsilon}[c] \cdot \sin^2(\text{theta}))$$

$$\epsilon_{xy} := \frac{1}{4} \frac{0.0016 + 0.0002 \sin\left(\frac{1}{2} \pi\right)^2 - 0.008 \sin\left(\frac{1}{4} \pi\right)^2}{\sin\left(\frac{1}{4} \pi\right)^2 \sin\left(\frac{1}{2} \pi\right)} \quad (11)$$

$$> \text{epsilon}[xz] := 0$$

$$\epsilon_{xz} := 0 \quad (12)$$

$$> \text{epsilon}[yz] := 0$$

$$\epsilon_{yz} := 0 \quad (13)$$

$$> \text{sigma}[xx] := \frac{E}{(1 + \text{nu}) \cdot (1 - 2 \cdot \text{nu})} ((1 - \text{nu}) \text{epsilon}[xx] + \text{nu}(\text{epsilon}[yy] + \text{epsilon}[zz]))$$

#equ3.32

$$\sigma_{xx} := 28702.66668 \quad (14)$$

$$> \text{sigma}[yy] := \frac{E}{(1 + \text{nu}) \cdot (1 - 2 \cdot \text{nu})} ((1 - \text{nu}) \text{epsilon}[yy] + \text{nu}(\text{epsilon}[xx] + \text{epsilon}[zz]))$$

#equ3.32

$$\sigma_{yy} := \frac{28611.11112 \left( 0.0006 \sin(\pi) + 0.008 \sin\left(\frac{1}{2} \pi\right) \right)}{\sin\left(\frac{1}{4} \pi\right)^2 \sin\left(\frac{1}{2} \pi\right)} + 28611.11112 \quad (15)$$

$$> \text{sigma}[zz] := \frac{E}{(1 + \text{nu}) \cdot (1 - 2 \cdot \text{nu})} ((1 - \text{nu}) \text{epsilon}[zz] + \text{nu}(\text{epsilon}[xx] + \text{epsilon}[yy]))$$

#equ3.32

$$\sigma_{zz} := 28611.11112 \quad (16)$$

$$> \text{sigma}[xy] := \frac{E}{1 + \text{v}} \cdot \text{epsilon}[xy"] \cdot 0 \text{#equ3.32}$$

$$\sigma_{xy} := 0. \quad (17)$$

$$> \text{sigma}[xz] := \frac{E}{1 + \text{v}} \cdot \text{epsilon}[xz"] \cdot 0 \text{#equ3.32}$$

$$\sigma_{xz} := 0. \quad (18)$$

$$> \text{sigma}[yz] := \frac{E}{1 + \text{v}} \cdot \text{epsilon}[yz"] \cdot 0 \text{#equ3.32}$$

$$\sigma_{yz} := 0. \quad (19)$$

$$> \text{Iota}[1] := \text{sigma}[xx] + \text{sigma}[yy] + \text{sigma}[zz] \text{#eq2.78}$$

$$I_1 := 85924.88892 + \frac{28611.11112 \left( 0.0006 \sin(\pi) + 0.008 \sin\left(\frac{1}{2} \pi\right) \right)}{\sin\left(\frac{1}{4} \pi\right)^2 \sin\left(\frac{1}{2} \pi\right)} \quad (20)$$

$$> \text{Iota}[2] := \text{sigma}[xx] \cdot \text{sigma}[yy] + \text{sigma}[xx] \cdot \text{sigma}[zz] + \text{sigma}[yy] \cdot \text{sigma}[zz] - \text{sigma}[xy]^2 -$$

$$\begin{aligned}
& -\sigma_{xz}^2 - \sigma_{yz}^2 \text{ \#eq2.78} \\
I_2 := & \frac{1.639810865 \cdot 10^9 \left( 0.0006 \sin(\pi) + 0.008 \sin\left(\frac{1}{2} \pi\right) \right)}{\sin\left(\frac{1}{4} \pi\right)^2 \sin\left(\frac{1}{2} \pi\right)} + 2.461026052 \cdot 10^9 \quad (21)
\end{aligned}$$

$$\begin{aligned}
& \text{Iota}[3] := \text{LinearAlgebra}[\text{Determinant}] \left[ \begin{pmatrix} \sigma_{xx} & \sigma_{xy} & \sigma_{xz} \\ \sigma_{xy} & \sigma_{yy} & \sigma_{yz} \\ \sigma_{xz} & \sigma_{yz} & \sigma_{zz} \end{pmatrix} \right] \text{ \#eq2.78} \\
I_3 := & \frac{1}{\sin\left(\frac{1}{4} \pi\right)^2 \sin\left(\frac{1}{2} \pi\right)} \left( 1.409752736 \cdot 10^{10} \sin(\pi) + 1.879670314 \cdot 10^{11} \sin\left(\frac{1}{2} \pi\right) \right. \\
& \left. + 2.349587893 \cdot 10^{13} \sin\left(\frac{1}{4} \pi\right)^2 \sin\left(\frac{1}{2} \pi\right) \right) \quad (22)
\end{aligned}$$

$$\begin{aligned}
& \text{equ} := M^3 - \text{Iota}[1] \cdot M^2 + \text{Iota}[2] \cdot M - \text{Iota}[3] \text{ \#equ 2.77b} \\
\text{equ} := & M^3 - M^2 \left( 85924.88892 + \frac{28611.11112 \left( 0.0006 \sin(\pi) + 0.008 \sin\left(\frac{1}{2} \pi\right) \right)}{\sin\left(\frac{1}{4} \pi\right)^2 \sin\left(\frac{1}{2} \pi\right)} \right) \\
& + M \left( \frac{1.639810865 \cdot 10^9 \left( 0.0006 \sin(\pi) + 0.008 \sin\left(\frac{1}{2} \pi\right) \right)}{\sin\left(\frac{1}{4} \pi\right)^2 \sin\left(\frac{1}{2} \pi\right)} + 2.461026052 \cdot 10^9 \right) \\
& - \frac{1}{\sin\left(\frac{1}{4} \pi\right)^2 \sin\left(\frac{1}{2} \pi\right)} \left( 1.409752736 \cdot 10^{10} \sin(\pi) + 1.879670314 \cdot 10^{11} \sin\left(\frac{1}{2} \pi\right) \right. \\
& \left. + 2.349587893 \cdot 10^{13} \sin\left(\frac{1}{4} \pi\right)^2 \sin\left(\frac{1}{2} \pi\right) \right) \quad (23)
\end{aligned}$$

$$\begin{aligned}
& \text{solve}(\text{equ}, M) \\
& \frac{1}{\cos(0.2500000000 \pi)^2 - 1.} \left( 1.066666667 \cdot 10^{-8} \left( 8.218063680 \cdot 10^{27} \cos(0.2500000000 \pi)^6 \right. \right. \\
& - 1.887569401 \cdot 10^{29} \cos(0.2500000000 \pi)^4 \\
& + 5.859375000 \cdot 10^{11} \cos(0.2500000000 \pi)^2 \left( -1.955398253 \cdot 10^{34} \cos(0.2500000000 \pi)^8 \right. \\
& - 1.138259802 \cdot 10^{35} \cos(0.2500000000 \pi)^6 - 2.818706112 \cdot 10^{35} \cos(0.2500000000 \pi)^4 \\
& - 2.593191992 \cdot 10^{35} \cos(0.2500000000 \pi)^2 - 6.223804016 \cdot 10^{34} \Big)^{1/2} \\
& \left. \left. - 3.730976132 \cdot 10^{29} \cos(0.2500000000 \pi)^2 \right) \right)
\end{aligned}$$

$$\begin{aligned}
& - 5.859375000 \cdot 10^{11} \left( -1.955398253 \cdot 10^{34} \cos(0.2500000000 \pi)^8 \right. \\
& - 1.138259802 \cdot 10^{35} \cos(0.2500000000 \pi)^6 - 2.818706112 \cdot 10^{35} \cos(0.2500000000 \pi)^4 \\
& - 2.593191992 \cdot 10^{35} \cos(0.2500000000 \pi)^2 - 6.223804016 \cdot 10^{34} \Big)^{1/2} \\
& \left. - 2.930852181 \cdot 10^{27} \right)^{1/3} \Big) \\
& + \left( 3.200000000 \cdot 10^{-8} \left( 6.309192092 \cdot 10^{18} \cos(0.2500000000 \pi)^4 + 6.993801270 \cdot 10^{18} \cos(0.2500000000 \pi) \right. \right. \\
& \left. \left. - 1. \right) \left( 8.218063680 \cdot 10^{27} \cos(0.2500000000 \pi)^6 \right. \right. \\
& \left. \left. - 1.887569401 \cdot 10^{29} \cos(0.2500000000 \pi)^4 \right. \right. \\
& \left. \left. + 5.859375000 \cdot 10^{11} \cos(0.2500000000 \pi)^2 \left( -1.955398253 \cdot 10^{34} \cos(0.2500000000 \pi)^8 \right. \right. \right. \\
& \left. \left. - 1.138259802 \cdot 10^{35} \cos(0.2500000000 \pi)^6 - 2.818706112 \cdot 10^{35} \cos(0.2500000000 \pi)^4 \right. \right. \\
& \left. \left. - 2.593191992 \cdot 10^{35} \cos(0.2500000000 \pi)^2 - 6.223804016 \cdot 10^{34} \right)^{1/2} \right. \\
& \left. \left. - 3.730976132 \cdot 10^{29} \cos(0.2500000000 \pi)^2 \right. \right. \\
& \left. \left. - 5.859375000 \cdot 10^{11} \left( -1.955398253 \cdot 10^{34} \cos(0.2500000000 \pi)^8 \right. \right. \right. \\
& \left. \left. - 1.138259802 \cdot 10^{35} \cos(0.2500000000 \pi)^6 - 2.818706112 \cdot 10^{35} \cos(0.2500000000 \pi)^4 \right. \right. \\
& \left. \left. - 2.593191992 \cdot 10^{35} \cos(0.2500000000 \pi)^2 - 6.223804016 \cdot 10^{34} \right)^{1/2} \right. \\
& \left. \left. - 2.930852181 \cdot 10^{27} \right)^{1/3} \right) \\
& + \frac{1}{\cos(0.2500000000 \pi)^2 - 1.} \left( 3.200000000 \cdot 10^{-8} \left( 8.943356485 \cdot 10^{11} \right. \right. \\
& \left. \left. \cos(0.2500000000 \pi)^2 - 8.970775466 \cdot 10^{11} \right) \right), \\
& - \frac{1}{\cos(0.2500000000 \pi)^2 - 1.} \left( 5.333333333 \cdot 10^{-9} \left( 8.218063680 \cdot 10^{27} \right. \right. \\
& \left. \left. \cos(0.2500000000 \pi)^6 - 1.887569401 \cdot 10^{29} \cos(0.2500000000 \pi)^4 \right. \right. \\
& \left. \left. + 5.859375000 \cdot 10^{11} \cos(0.2500000000 \pi)^2 \left( -1.955398253 \cdot 10^{34} \cos(0.2500000000 \pi)^8 \right. \right. \right. \\
& \left. \left. - 1.138259802 \cdot 10^{35} \cos(0.2500000000 \pi)^6 - 2.818706112 \cdot 10^{35} \cos(0.2500000000 \pi)^4 \right. \right. \\
& \left. \left. - 2.593191992 \cdot 10^{35} \cos(0.2500000000 \pi)^2 - 6.223804016 \cdot 10^{34} \right)^{1/2} \right. \\
& \left. \left. - 3.730976132 \cdot 10^{29} \cos(0.2500000000 \pi)^2 \right. \right.
\end{aligned}$$

$$\begin{aligned}
& - 5.859375000 \cdot 10^{11} \left( -1.955398253 \cdot 10^{34} \cos(0.2500000000 \pi)^8 \right. \\
& - 1.138259802 \cdot 10^{35} \cos(0.2500000000 \pi)^6 - 2.818706112 \cdot 10^{35} \cos(0.2500000000 \pi)^4 \\
& - 2.593191992 \cdot 10^{35} \cos(0.2500000000 \pi)^2 - 6.223804016 \cdot 10^{34} \Big)^{1/2} \\
& \left. - 2.930852181 \cdot 10^{27} \right)^{1/3} \Big) \\
& - \left( 1.600000000 \cdot 10^{-8} \left( 6.309192092 \cdot 10^{18} \cos(0.2500000000 \pi)^4 + 6.993801270 \cdot 10^{18} \cos(0.2500000000 \pi) \right. \right. \\
& \left. \left. - 1. \right) \left( 8.218063680 \cdot 10^{27} \cos(0.2500000000 \pi)^6 \right. \right. \\
& \left. \left. - 1.887569401 \cdot 10^{29} \cos(0.2500000000 \pi)^4 \right. \right. \\
& + 5.859375000 \cdot 10^{11} \cos(0.2500000000 \pi)^2 \left( -1.955398253 \cdot 10^{34} \cos(0.2500000000 \pi)^8 \right. \\
& - 1.138259802 \cdot 10^{35} \cos(0.2500000000 \pi)^6 - 2.818706112 \cdot 10^{35} \cos(0.2500000000 \pi)^4 \\
& - 2.593191992 \cdot 10^{35} \cos(0.2500000000 \pi)^2 - 6.223804016 \cdot 10^{34} \Big)^{1/2} \\
& \left. - 3.730976132 \cdot 10^{29} \cos(0.2500000000 \pi)^2 \right. \\
& \left. - 5.859375000 \cdot 10^{11} \left( -1.955398253 \cdot 10^{34} \cos(0.2500000000 \pi)^8 \right. \right. \\
& \left. \left. - 1.138259802 \cdot 10^{35} \cos(0.2500000000 \pi)^6 - 2.818706112 \cdot 10^{35} \cos(0.2500000000 \pi)^4 \right. \right. \\
& \left. \left. - 2.593191992 \cdot 10^{35} \cos(0.2500000000 \pi)^2 - 6.223804016 \cdot 10^{34} \Big)^{1/2} \right. \right. \\
& \left. \left. - 2.930852181 \cdot 10^{27} \right)^{1/3} \right) \\
& + \frac{3.200000000 \cdot 10^{-8} \left( 8.943356485 \cdot 10^{11} \cos(0.2500000000 \pi)^2 - 8.970775466 \cdot 10^{11} \right)}{\cos(0.2500000000 \pi)^2 - 1.} \\
& + 0.8660254038 \operatorname{I} \left( \frac{1}{\cos(0.2500000000 \pi)^2 - 1.} \left( 1.066666667 \cdot 10^{-8} \right. \right. \\
& \left. \left( 8.218063680 \cdot 10^{27} \cos(0.2500000000 \pi)^6 - 1.887569401 \cdot 10^{29} \cos(0.2500000000 \pi)^4 \right. \right. \\
& \left. \left. + 5.859375000 \cdot 10^{11} \cos(0.2500000000 \pi)^2 \left( -1.955398253 \cdot 10^{34} \cos(0.2500000000 \pi)^8 \right. \right. \right. \\
& \left. \left. - 1.138259802 \cdot 10^{35} \cos(0.2500000000 \pi)^6 - 2.818706112 \cdot 10^{35} \cos(0.2500000000 \pi)^4 \right. \right.
\end{aligned}$$

$$\begin{aligned}
& -2.593191992 \cdot 10^{35} \cos(0.2500000000 \pi)^2 - 6.223804016 \cdot 10^{34})^{1/2} \\
& -3.730976132 \cdot 10^{29} \cos(0.2500000000 \pi)^2 \\
& -5.859375000 \cdot 10^{11} \left( -1.955398253 \cdot 10^{34} \cos(0.2500000000 \pi)^8 \right. \\
& -1.138259802 \cdot 10^{35} \cos(0.2500000000 \pi)^6 - 2.818706112 \cdot 10^{35} \cos(0.2500000000 \pi)^4 \\
& -2.593191992 \cdot 10^{35} \cos(0.2500000000 \pi)^2 - 6.223804016 \cdot 10^{34})^{1/2} \\
& \left. -2.930852181 \cdot 10^{27} \right)^{1/3} \Big) \\
& - \left( 3.200000000 \cdot 10^{-8} \left( 6.309192092 \cdot 10^{18} \cos(0.2500000000 \pi)^4 + 6.993801270 \cdot 10^{18} \cos(0.2500000000 \pi)^8 \right. \right. \\
& - 1. \Big) \left( 8.218063680 \cdot 10^{27} \cos(0.2500000000 \pi)^6 \right. \\
& - 1.887569401 \cdot 10^{29} \cos(0.2500000000 \pi)^4 \\
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& \left. - 2.930852181 \cdot 10^{27} \right)^{1/3} \Big) \Big), \\
& - \frac{1}{\cos(0.2500000000 \pi)^2 - 1.} \left( 5.333333333 \cdot 10^{-9} \left( 8.218063680 \cdot 10^{27} \right. \right.
\end{aligned}$$

$$\begin{aligned}
& \cos(0.2500000000 \pi)^6 - 1.887569401 \cdot 10^{29} \cos(0.2500000000 \pi)^4 \\
& + 5.859375000 \cdot 10^{11} \cos(0.2500000000 \pi)^2 \left( -1.955398253 \cdot 10^{34} \cos(0.2500000000 \pi)^8 \right. \\
& - 1.138259802 \cdot 10^{35} \cos(0.2500000000 \pi)^6 - 2.818706112 \cdot 10^{35} \cos(0.2500000000 \pi)^4 \\
& - 2.593191992 \cdot 10^{35} \cos(0.2500000000 \pi)^2 - 6.223804016 \cdot 10^{34} \Big)^{1/2} \\
& - 3.730976132 \cdot 10^{29} \cos(0.2500000000 \pi)^2 \\
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& - 1.138259802 \cdot 10^{35} \cos(0.2500000000 \pi)^6 - 2.818706112 \cdot 10^{35} \cos(0.2500000000 \pi)^4 \\
& - 2.593191992 \cdot 10^{35} \cos(0.2500000000 \pi)^2 - 6.223804016 \cdot 10^{34} \Big)^{1/2} \\
& \left. - 2.930852181 \cdot 10^{27} \right)^{1/3} \Big) \\
& - \left( 1.600000000 \cdot 10^{-8} \left( 6.309192092 \cdot 10^{18} \cos(0.2500000000 \pi)^4 + 6.993801270 \cdot 10^{18} \cos(0.2500000000 \pi) \right. \right. \\
& \left. \left. - 1. \right) \left( 8.218063680 \cdot 10^{27} \cos(0.2500000000 \pi)^6 \right. \right. \\
& \left. \left. - 1.887569401 \cdot 10^{29} \cos(0.2500000000 \pi)^4 \right. \right. \\
& \left. \left. + 5.859375000 \cdot 10^{11} \cos(0.2500000000 \pi)^2 \left( -1.955398253 \cdot 10^{34} \cos(0.2500000000 \pi)^8 \right. \right. \right. \\
& \left. \left. - 1.138259802 \cdot 10^{35} \cos(0.2500000000 \pi)^6 - 2.818706112 \cdot 10^{35} \cos(0.2500000000 \pi)^4 \right. \right. \\
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& + \frac{3.200000000 \cdot 10^{-8} \left( 8.943356485 \cdot 10^{11} \cos(0.2500000000 \pi)^2 - 8.970775466 \cdot 10^{11} \right)}{\cos(0.2500000000 \pi)^2 - 1.} \\
& - 0.8660254038 \operatorname{I} \left( \frac{1}{\cos(0.2500000000 \pi)^2 - 1.} \left( 1.066666667 \cdot 10^{-8} \right. \right.
\end{aligned}$$

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& \left( 8.218063680 \cdot 10^{27} \cos(0.2500000000 \pi)^6 - 1.887569401 \cdot 10^{29} \cos(0.2500000000 \pi)^4 \right. \\
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& - 1.138259802 \cdot 10^{35} \cos(0.2500000000 \pi)^6 - 2.818706112 \cdot 10^{35} \cos(0.2500000000 \pi)^4 \\
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& \left. - 2.930852181 \cdot 10^{27} \right)^{1/3} \Big) \\
& - \left( 3.200000000 \cdot 10^{-8} \left( 6.309192092 \cdot 10^{18} \cos(0.2500000000 \pi)^4 + 6.993801270 \cdot 10^{18} \cos(0.2500000000 \pi)^2 \right. \right. \\
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& -1.138259802 \cdot 10^{35} \cos(0.2500000000 \pi)^6 - 2.818706112 \cdot 10^{35} \cos(0.2500000000 \pi)^4 \\
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& - 2.930852181 \cdot 10^{27} \Big)^{1/3} \Big)
\end{aligned}$$

> M[1] :=....

Error, Got internal error in Typesetting:-Parse : "invalid subscript selector"

M[1] :=....

> M[2] :=....

Error, Got internal error in Typesetting:-Parse : "invalid subscript selector"

M[2] :=....

> M[3] :=.....

Error, Got internal error in Typesetting:-Parse : "invalid subscript selector"

M[3] :=.....

>