

See @eq:max.

$$\begin{aligned} \nabla \times [\vec{B}] - 1/c \partial[\vec{E}]/\partial t &= 4\pi/c [\vec{j}] \quad | \# \\ \nabla \cdot [\vec{E}] &= 4\pi\rho \quad | \\ \nabla \times [\vec{E}] + 1/c \partial[\vec{B}]/\partial t &= [\vec{0}] \quad | \\ \nabla \cdot [\vec{B}] &= 0 \quad > \end{aligned}$$

, , , {#eq:max}

where $[\vec{B}], [\vec{E}], [\vec{j}]: \mathbb{R}^4 \rightarrow \mathbb{R}^3$ - vector functions of the form
 $(t, x, y, z) \mapsto [\vec{f}](t, x, y, z), [\vec{f}] = (f_x, f_y, f_z)$.

See eq. 1.

$$\begin{aligned} \nabla \times \mathbf{B} - \frac{1}{c} \frac{\partial \mathbf{E}}{\partial t} &= \frac{4\pi}{c} \mathbf{j} \\ \nabla \cdot \mathbf{E} &= 4\pi\rho \\ \nabla \times \mathbf{E} + \frac{1}{c} \frac{\partial \mathbf{B}}{\partial t} &= \mathbf{0} \\ \nabla \cdot \mathbf{B} &= 0 \end{aligned}, \quad (1)$$

where $\mathbf{B}, \mathbf{E}, \mathbf{j}: \mathbb{R}^4 \rightarrow \mathbb{R}^3$ - vector functions of the form
 $(t, x, y, z) \mapsto \mathbf{f}(t, x, y, z), \mathbf{f} = (f_x, f_y, f_z)$.

See @eq:max2.

$$\begin{aligned} \nabla \times \mathbf{B} - 1/c \partial \mathbf{E} / \partial t &= 4\pi/c \mathbf{j} \quad | \# \\ \nabla \cdot \mathbf{E} &= 4\pi\rho \quad | \\ \nabla \times \mathbf{E} + 1/c \partial \mathbf{B} / \partial t &= \mathbf{0} \quad | \\ \nabla \cdot \mathbf{B} &= 0 \quad > \end{aligned}$$

, , , {#eq:max2}

where $\mathbf{B}, \mathbf{E}, \mathbf{j}: \mathbb{R}^4 \rightarrow \mathbb{R}^3$ – vector functions of the form
 $(t, x, y, z) \mapsto \mathbf{f}(t, x, y, z), \mathbf{f} = (f_x, f_y, f_z)$.

See eq. 2.

$$\begin{aligned} \nabla \times \mathbf{B} - \frac{1}{c} \frac{\partial \mathbf{E}}{\partial t} &= \frac{4\pi}{c} \mathbf{j} \\ \nabla \cdot \mathbf{E} &= 4\pi \rho \\ \nabla \times \mathbf{E} + \frac{1}{c} \frac{\partial \mathbf{B}}{\partial t} &= \mathbf{0} \\ \nabla \cdot \mathbf{B} &= 0 \end{aligned}, \quad (2)$$

where $\mathbf{B}, \mathbf{E}, \mathbf{j}: \mathbb{R}^4 \rightarrow \mathbb{R}^3$ – vector functions of the form
 $(t, x, y, z) \mapsto \mathbf{f}(t, x, y, z), \mathbf{f} = (f_x, f_y, f_z)$.

$$A = B^T C B$$

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$$\begin{bmatrix} x_{11} & x_{12} & x_{13} & \dots & x_{1n} \\ x_{21} & x_{22} & x_{23} & \dots & x_{2n} \\ \vdots & \vdots & \vdots & \ddots & \vdots \\ x_{p1} & x_{p2} & x_{p3} & \dots & x_{pn} \end{bmatrix}$$

$$\begin{bmatrix} x_{11} & x_{12} & x_{13} & \dots & x_{1n} \\ x_{21} & x_{22} & x_{23} & \dots & x_{2n} \\ \vdots & \vdots & \vdots & \ddots & \vdots \\ x_{p1} & x_{p2} & x_{p3} & \dots & x_{pn} \end{bmatrix}$$

```

.. `def`B{
  <[ ax0 + by1 |"
    ax1 + by2 |
      ⋮ |
    ax_{N-1} + by_{N-1} ],
  }!
`B = a[↗x] + b[↗y] ..

```

$$\begin{bmatrix} ax_0 + by_1 \\ ax_1 + by_2 \\ \vdots \\ ax_{N-1} + by_{N-1} \end{bmatrix} = a\mathbf{x} + b\mathbf{y}$$

```

.. .|x|. = {∈ x. <if> x≥0 |
            -x. <if> x<0 } ..

.. `boole`(x) = {∈ 1. <if> `x` is > [^True] |
                0. <if> `x` is > [^False] } ..

```

$$|x| = \begin{cases} x & \text{if } x \geq 0 \\ -x & \text{if } x < 0 \end{cases}$$

$$\mathrm{boole}(x) = \begin{cases} 1 & \text{if } x \text{ is True} \\ 0 & \text{if } x \text{ is False} \end{cases}$$

$$\begin{array}{l} _, \, \text{`lim`}_x \rightarrow 0 \, \, \text{`sin` } x \text{,} / x = 1 _, \\ _, \, U_{\{\delta_1 \rho_2\}}^{\{\beta_1 \alpha_2\}} _, \\ _, \, \sqrt{x} = 1 + \text{`x-1`}_\text{,} / \text{`2 + `x-1`}_\text{,} / \text{`2 + `x-1`}_\text{,} / \text{`2 + `.``}} _, \\ _, \, \text{`sin`}^2 \, x'' + \text{`cos`}^2 \, x'' = 1 _, \end{array}$$

$$\lim_{x\rightarrow 0}\frac{\sin x}{x}=1$$

$$U_{\delta_1\rho_2}^{\beta_1\alpha_2}$$

$$\sqrt{x}=1+\frac{x-1}{2+\frac{x-1}{2+\frac{x-1}{2+\cdots}}}$$

$$\sin^2\ddot{x}+\cos^2\ddot{x}=1$$

$$\begin{array}{l} _, \, \alpha_2^3 / \sqrt[3]{\beta_2^2 + \gamma_2^2} _, \\ _, \, (x+y)^2 = \sum_{k=0}^{\wedge \infty} (n\text{!}^{\text{`c`}} k) x^{n-k} y^k _, \\ _, \, (n\text{!}^{\text{`c`}} k) = \text{`x`}(n\text{!}^{\text{`:`}} k) \text{,} \, \text{`x`}[n\text{!}^{\text{`:`}} k] _, \end{array}$$

$$\frac{\alpha_2^3}{\sqrt[3]{\beta_2^2+\gamma_2^2}}$$

$$(x+y)^2 = \sum_{k=0}^\infty \binom{n}{k} x^{n-k} y^k$$

$$\binom{n}{k} = \binom{n}{k}, \quad \begin{bmatrix} n \\ k \end{bmatrix}$$

$$\begin{aligned} & \text{,, } \{x + \dots + x\}^{\text{---}}\{k \times \text{times}\} \text{,,} \\ & \text{,, } \pi d^2/4 \text{ } 1/ \text{.} (A+B) \text{.}^2 = \\ & \quad \pi d^2/4 \text{ } \text{ } \{ \text{.} (A) \text{.}^2 \} \text{ } 1/ \text{.} (A+B) \text{.}^2 \text{,,} \\ & \text{,, } \sum^n_{\{0 \leq i \leq N \text{ } | \text{ } 0 \leq j \leq M\}} (ij)^2 + \\ & \quad \sum^n_{\{i \in A \text{ } | \text{ } 0 \leq j \leq M\}} (ij)^2 \text{,,} \end{aligned}$$

$$\overbrace{x+\ldots+x}^{k\text{ times}}$$

$$\frac{\pi d^2}{4} \frac{1}{(A+B)^2} = \frac{\pi d^2}{4} \frac{1}{(A+B)^2}$$

$$\sum_{\substack{0\leq i\leq N\\0\leq j\leq M}}^n (ij)^2 + \sum_{\substack{i\in A\\0\leq j\leq M}}^n (ij)^2$$

$$\begin{aligned} & \text{,, } \text{`erf`}(x) = 1/\sqrt{\pi} \int_{-x}^x e^{\{-t^2\}} \, dt \text{,,} \\ & \text{,, } f^{(2)}(0) = f''(0) = \text{.} \text{ } d^2 f/dx^2 | \text{.} \text{ } x=0 \text{,,} \\ & \text{Text } \dots (\text{ } a \text{ } b \text{ } | \text{ }^t \text{ } c \text{ } d \text{ }) \dots \text{ and some more text.} \end{aligned}$$

$$\operatorname{erf}(x)=\frac{1}{\sqrt{\pi}}\int_{-x}^xe^{-t^2}dt$$

$$f^{(2)}(0) = f''(0) = \left. \frac{d^2 f}{dx^2} \right|_{x=0}$$

Text $\begin{pmatrix} a & b \\ c & d \end{pmatrix}$ and some more text.

prefix unary operator \rightarrow^{\neg} :

`.. f: x \rightarrow^{\neg {<arrow map>} \neg i x2 ..`

$$f : x \xrightarrow[\quad i]{\text{arrow map}} x^2$$

center binary operator \neg :

`.. f: x \rightarrow \neg {<arrow map>} \neg i x2 ..`

$$f : x \xrightarrow[\quad i]{\text{arrow map}} x^2$$

bug because styles also implemented as prefix unary operators
(but by design styles should have priority!):

`.. f: x \rightarrow^{\neg {<arrow map>} \neg i x2 ..`

$$f : x \xrightarrow[\quad i]{\text{<arrow map>}} x^2$$