

# Příklady zápisu rovnic v LaTeXu

Následující rovnice byly do textu vloženy jako obrázky generované v online editoru:

<http://www.codecogs.com/latex/eqneditor.php>

Obrázky vždy ukládejte jako SVG (vektorová grafika). V tomto formátu obrázků neztrácí na kvalitě při zvětšování ani při exportu dokumentu do PDF.

$$\operatorname{rot} \vec{E} = -\frac{\partial \vec{B}}{\partial t}$$

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$$\operatorname{rot} \vec{H} = \vec{j} + \frac{\partial \vec{D}}{\partial t}$$

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$$\operatorname{div} \vec{D} = \rho$$

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$$\operatorname{div} \vec{B} = 0$$

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$$\nabla = \left( \frac{\partial}{\partial x}, \frac{\partial}{\partial y}, \frac{\partial}{\partial z} \right)$$

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$$\operatorname{grad} \varphi = \frac{\partial \varphi}{\partial x} \vec{i} + \frac{\partial \varphi}{\partial y} \vec{j} + \frac{\partial \varphi}{\partial z} \vec{k}$$

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$$|\operatorname{grad} \varphi| = \left[ \left( \frac{\partial \varphi}{\partial x} \right)^2 + \left( \frac{\partial \varphi}{\partial y} \right)^2 + \left( \frac{\partial \varphi}{\partial z} \right)^2 \right]^{\frac{1}{2}}$$

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$$\oint_l \vec{a} \, d\vec{l} = \oint_l (a_x \, dx + a_y \, dy + a_z \, dz)$$

$$\oint \vec{a} \cdot d\vec{l} = \oint (a_x \, dx + a_y \, dy + a_z \, dz)$$

$$\oint_l \vec{a} d\vec{l} = \iint_S \text{rot } \vec{a} d\vec{S}$$

$$\oint \vec{a} \cdot d\vec{l} = \iint_S (\text{rot } \vec{a}) \cdot d\vec{S}$$

$$\text{rot } \vec{a} = \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ \frac{\partial}{\partial x} & \frac{\partial}{\partial y} & \frac{\partial}{\partial z} \\ a_x & a_y & a_z \end{vmatrix}$$

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$$T_L = T_0 + u \cos \left( \frac{2\pi}{365} N \right) + v \sin \left( \frac{2\pi}{365} N \right)$$

$$T_{\text{L}} = T_0 + u \cos \left( \frac{2\pi}{365} N \right) + v \sin \left( \frac{2\pi}{365} N \right)$$

$$T_L = \frac{\ln I_0 - \ln I_{Pn}}{\ln I_0 - \ln I_{\check{c}}}$$

$$T_{\text{L}} = \frac{\ln I_0 - \ln I_{Pn}}{\ln I_0 - \ln I_{\check{c}}}$$

$$\delta_R = -\frac{1}{m} \cdot \ln \frac{I_{\check{c}}}{I_0}$$

$$\delta_{\text{R}} = -\frac{1}{m} \cdot \ln \frac{I_{\check{c}}}{I_0}$$

$$\Delta = 23,45^\circ \sin (0,98^\circ D + 29,7^\circ M - 109^\circ)$$

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$$I_{\text{sol}} = 1\,367,13 \text{ Wm}^2$$

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$$I_{\text{Gh}} = (1297 - 57 T_{\text{L}(2)}) (\sin h)^{\frac{36+T_{\text{L}(2)}}{33}}$$

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$$m_{\text{KY}} = \frac{p/p_0}{\cos \theta + 0,505\,72 (96,079\,95 - \theta)^{-1,636\,4}}$$

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