

**Very simple book with
mathematical formulas**

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Chapter 1. $\mathbb{L}^{\text{A}}\text{T}_{\text{E}}\text{X}Math$

The Java package $\mathbb{L}^{\text{A}}\text{T}_{\text{E}}\text{X}Math$ combining with FOP gives the possibility to write $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ commands in Docbook.

For example :

$$\phi_n(\kappa) = \frac{1}{4\pi^2\kappa^2} \int_0^\infty \frac{\sin(\kappa R)}{\kappa R} \frac{\partial}{\partial R} \left[R^2 \frac{\partial D_n(R)}{\partial R} \right] dR$$

We can use an example block :

Example 1.1.

$$\det \begin{bmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ a_{21} & \ddots & \ddots & \vdots \\ \vdots & \ddots & \ddots & \vdots \\ a_{n1} & \cdots & \cdots & a_{nn} \end{bmatrix} \stackrel{\text{def}}{=} \sum_{\sigma \in \mathfrak{S}_n} \varepsilon(\sigma) \prod_{k=1}^n a_{k\sigma(k)}$$

The formulas can be in `displaystyle` $\sum_{n=1}^{+\infty} \frac{1}{n^2} = \frac{\pi^2}{6}$ or in `textstyle` $\sum_{n=1}^{+\infty} \frac{1}{n^2} = \frac{\pi^2}{6}$.