

A L^AT_EX Template, 一个 L^AT_EX 模板

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1 Test Example

这是一个中文-英语-法语混排的多语言模板。

C'est un template multilangue pour l'utilisation chinois-anglais-français.

This is a multilanguage template for chinese-english-french.

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3 Mathematic Tools:LCS27symbols

3.1 Regrouping powerful mathematic packages!

Many mathematical symbols are defined by multiple L^AT_EX packages, the package LCS27symbols regroups them!

- `amsmath`: basic mathematic packages, providing format such as mathematic symbols and equations.
- `amsfonts`: mathematic fonts.
- `mathrsfs`: mathematic fonts.
- `bbm`: mathematic fonts.
- `amsthm`: theorem environment.
- `amssymb`: advance mathematic symbols.
- `mathtools` : advance mathematic symbols.



- `siunitx`: scientific notation (*E.g.* To write 2×10^9 you just need `\num{2e+9}`).
- `stmaryrd`: binary operator symbols.

For a quick-check webpage, you can go to https://oeis.org/wiki/List_of_LaTeX_mathematical_symbols.

3.2 Autodefined symbols

The package `LCS27symbols` also defines several symbols, especially useful for mechanic fields!

$\backslash\mathrm{deri}\{a\}\{b\}$ $\backslash\mathrm{deriN}\{a\}\{b\}\{n\}$ $\backslash\mathrm{ParDeri}\{a\}\{b\}$ $\backslash\mathrm{ParDeriN}\{a\}\{b\}\{n\}$ $\backslash\mathrm{Deri}\{a\}\{b\}$ $\backslash\mathrm{DeriN}\{a\}\{b\}\{n\}$ $a\backslash\mathrm{laplace}\ b$ $\backslash\mathrm{abs}\ \backslash\mathrm{scalaire}\ \backslash\mathrm{bbs}$ $a\backslash\mathrm{nabla}\ b,\ \backslash\mathrm{cbs}\ \backslash\mathrm{nablab}\ \backslash\mathrm{dbs}$ $\backslash\mathrm{ssi},\backslash\mathrm{iff}$ $\backslash\mathrm{Abb}\ \backslash\mathrm{gbb}\ \backslash\mathrm{Onebb}$ $\backslash\mathrm{Abf}\ \backslash\mathrm{bbf}\ \backslash\mathrm{Onebf}$ $\backslash\mathrm{Abs},\backslash\mathrm{bbs},\backslash\mathrm{Gammabs},\backslash\mathrm{deltabs},\backslash\mathrm{varphibs},\ \backslash\mathrm{nablab}\backslash\mathrm{s}$ $\backslash\mathrm{Ao},\backslash\mathrm{bo},\backslash\mathrm{Gammao},\backslash\mathrm{deltao},\backslash\mathrm{arphio},\backslash\mathrm{nablao},\backslash\mathrm{Oneo}$ $\backslash\mathrm{Aoo},\backslash\mathrm{boo},\backslash\mathrm{Gammaoo},\backslash\mathrm{deltaoo},\backslash\mathrm{varphioo},\backslash\mathrm{nablao},\backslash\mathrm{Oneoo}$ $\backslash\mathrm{Ad},\backslash\mathrm{bd},\backslash\mathrm{Gammad},\backslash\mathrm{deltad},\backslash\mathrm{varphid},\backslash\mathrm{nabladd},\backslash\mathrm{Oned}$ $\backslash\mathrm{Add},\backslash\mathrm{bdd},\backslash\mathrm{Gammadd},\backslash\mathrm{deltadd},\backslash\mathrm{varphidd},\backslash\mathrm{nabladd},\backslash\mathrm{Onedd}$ $\backslash\mathrm{Acal}$ $\backslash\mathrm{setR},\backslash\mathrm{setC},\backslash\mathrm{setN},\backslash\mathrm{setZ},\backslash\mathrm{setRR}$ $\backslash\mathrm{rel}$ $\backslash\mathrm{eg},\backslash\mathrm{Eg}$ $\backslash\mathrm{ie},\backslash\mathrm{Ie}$ $\backslash\mathrm{cf},\backslash\mathrm{Cf}$ $\backslash\mathrm{etc},\backslash\mathrm{vs},\backslash\mathrm{wrt},\backslash\mathrm{dof}$ $\backslash\mathrm{etal},\backslash\mathrm{resp},\backslash\mathrm{st},\backslash\mathrm{aka},\backslash\mathrm{abr}$ $\backslash\mathrm{tsum}$ $\backslash\mathrm{grad}\ \backslash\mathrm{xbs}$ $\backslash\mathrm{norm}\{a\}$ $\backslash\mathrm{Intv}\{a\}\{b\}$ $\backslash\mathrm{IntIntv}\{a\}\{b\}$ $\backslash\mathrm{UpperInt}\{a\}$ $\backslash\mathrm{LowerInt}\{a\}$	$\frac{da}{db}$ $\frac{d^na}{db^n}$ $\frac{\partial a}{\partial b^n}$ $\frac{\partial^na}{\partial b^n}$ $\frac{D^na}{Db^n}$ $a\triangle b$ $\mathbf{a} \cdot \mathbf{b}$ $a\nabla b, c\nabla d$ $\Longleftrightarrow, \Leftrightarrow$ $\mathbb{A}g\mathbb{I}$ $\mathbf{Ab1}$ $\mathbf{A}, \mathbf{b}, \mathbf{\Gamma}, \mathbf{\delta}, \mathbf{\varphi}, \mathbf{\nabla}$ $\overline{A}, \overline{b}, \overline{\Gamma}, \overline{\delta}, \overline{\varphi}, \overline{\nabla}, \overline{1}$ $\overline{\overline{A}}, \overline{\overline{b}}, \overline{\overline{\Gamma}}, \overline{\overline{\delta}}, \overline{\overline{\varphi}}, \overline{\overline{\nabla}}, \overline{\overline{1}}$ $\underline{A}, \underline{b}, \underline{\Gamma}, \underline{\delta}, \underline{\varphi}, \underline{\nabla}, \underline{1}$ $\underline{\underline{A}}, \underline{\underline{b}}, \underline{\underline{\Gamma}}, \underline{\underline{\delta}}, \underline{\underline{\varphi}}, \underline{\underline{\nabla}}, \underline{\underline{1}}$ \mathcal{A} $\mathbb{R}, \mathbb{C}, \mathbb{N}, \mathbb{Z}, \mathbb{R} \times \mathbb{R}$ \mathcal{R} $e.g., E.g.$ $i.e., I.e.$ $c.f., C.f.$ $etc., vs., w.r.t., d.o.f.$ $et\ al., resp., s.t., a.k.a., abr.$ \sum $\nabla \mathbf{x}$ $\ a\ $ $[a, b]$ $\llbracket a, b \rrbracket$ $\lceil a \rceil$ $\lfloor a \rfloor$
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