## py-dimensional-analysis

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This Python package addresses physical dimensional analysis. In particular, py-dimensional-analysis calculates from a given system of (dimensional) variables those products that yield a desired target dimension.

The following example illustrates how the variables mass, force, time and pressure must relate to each other in order to produce the dimension length\*time.

This library is based on [Szi07], and also incorporates ideas and examples from [San19, Son01].

## 1.1 References

- [San19] Juan G. Santiago. A First Course in Dimensional Analysis: Simplifying Complex Phenomena Using Physical Insight. MIT Press, 2019.
- [Son01] Ain A Sonin. Dimensional analysis. Technical report, Technical report, Massachusetts Institute of Technology, 2001.

 $\hbox{[Szi07] Thomas Szirtes.} \quad \textit{Applied dimensional analysis and modeling}. \\ \hbox{Butterworth-Heinemann, 2007.}$