

Rudimentary Physics with Python: An Application of Python Computer Algebra to Perform Calculus-based Kinematic Analysis

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Abstract

Python is “an interpreted high-level programming language for general-purpose programming.” As part of its “general-purpose programming,” Python can be applied to solve scientific computing and numeric problems. This paper, along with its accompanying presentation, will discuss working out the displacement function from an arbitrary non-constant acceleration function with a symbolic computing library for Python known as SymPy.

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